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(54) Title: CHARACTERIZATION OF THE YEAST TRANSCRIPTOME

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(57) Abstract: Yeast genes which are differentially expressed during the cell cycle are described. They can be used to study, affect, and monitor the cell cycle of a eukaryotic cell. They can be used to obtain human homologs involved in cell cycle regulation. They can be used to identify antifungal agents and other classes of drugs. They can be formed into arrays on solid supports for interrogation of a cell's transcriptome under various conditions.

TEF1/2



396 229 379

NORF1



114 84 182

RNR4



9 111 7

RNR2



9 85 9

NORF5



0 49 0

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CHARACTERIZATION OF THE YEAST TRANSCRIPTOME

This application is a continuation-in-part of co-pending application Serial No. 09/012,031 filed January 22, 1998, the disclosure of which is incorporated by reference herein. This invention was made with government support under CA57345 awarded
5 by the National Institutes of Health. The government has certain rights in the invention.

TECHNICAL FIELD OF THE INVENTION

This invention is related to the characterization of the expressed genes of the yeast genome. More particularly, it is related to the identification and use of previously
10 unrecognized genes.

BACKGROUND OF THE INVENTION

It is by now axiomatic that the phenotype of an organism is largely determined by the genes expressed within it. These expressed genes can be represented by a "transcriptome," conveying the identity of each expressed gene and its level of expression for a defined population of cells. Unlike the genome, which is essentially
15 a static entity, the transcriptome can be modulated by both external and internal factors. The transcriptome thereby serves as a dynamic link between an organism's genome and its physical characteristics.

The transcriptome as defined above has not been characterized in any eukaryotic or prokaryotic organism, largely because of technological limitations. However, some
20 general features of gene expression patterns were elucidated two decades ago through

RNA-DNA hybridization measurements (Bishop *et al.*, 1974; Hereford and Rosbash, 1977). In many organisms, it was thus found that at least three classes of transcripts could be identified, with either high, medium, or low levels of expression, and the number of transcripts per cell were estimated (Lewin, 1980). These data of course provided little information about the specific genes that were members of each class. Data on the expression levels of individual genes have accumulated as new genes were discovered. However, in only a few instances have the absolute levels of expression of particular genes been measured and compared to other genes in the same cell type.

Description of any cell's transcriptome would therefore provide new information useful for understanding numerous aspects of cell biology and biochemistry.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide isolated DNA molecules and methods of using such molecules to affect the cell cycle and identify candidate drugs. These and other objects of the invention are achieved by providing the art with one or more of the embodiments described below.

According to one embodiment of the invention an isolated DNA molecule is provided. It comprises a coding sequence of a yeast gene selected from the group consisting of NORF genes comprising a SAGE tag as shown in SEQ ID NOS:67-811.

According to another embodiment of the invention a method of using NORF genes is provided. The method is for affecting the cell cycle of a cell. The method comprises the step of administering to a cell an isolated DNA molecule comprising a coding sequence of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M.

In yet another embodiment of the invention a method for screening candidate antifungal drugs is provided. The method comprises the steps of contacting a test substance with a yeast cell and monitoring expression of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M, wherein a test substance

which modifies the expression of the yeast gene is a candidate antifungal drug.

In still another embodiment of the invention a method for identifying human genes which are involved in cell cycle progression is provided. The method comprises the step of contacting human DNA with a probe which comprises at least 14 contiguous nucleotides of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M. A human DNA sequence which hybridizes to the probe is identified as a sequence of a candidate human gene which is involved in cell cycle progression.

The present invention provides probes which comprise at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

The invention also provides an array of probes on a solid support. At least one probe in the array comprises at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

Still another embodiment of the invention is a method of identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell. A yeast cell is contacted with a candidate drug. Expression of at least one NORF gene whose expression is affected by the class of drugs is monitored in the yeast cell. Detection of a difference in expression of the at least one NORF gene relative to expression in the absence of the candidate drug identifies the candidate drug as a member of the class of drugs.

These and other embodiments of the invention which will be apparent to those of skill in the art upon reading the detailed disclosure provided below, make available to the art hitherto unrecognized genes, and information about the expression of genes globally at the organismal level.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1. Schematic of SAGE Method and Genome Analysis. In applying SAGE to the analysis of yeast gene expression patterns, the 3' most NlaIII site was used to define a unique position in each transcript and to provide a site for ligation of

a linker with a BsmFI site. The type IIIs enzyme BsmFI, which cleaves a defined distance from its non-palindromic recognition site, was then used to generate a 15bp SAGE tag (designated by the black arrows), which includes the NlaIII site. Automated sequencing of concatenated SAGE tags allowed the routine identification 5 of about a thousand tags per 36-lane sequencing gel. Once sequenced, the abundance of each SAGE tag was calculated, and each tag was used to search the entire yeast genome to identify its corresponding gene. The lower panel shows a small region of Chromosome 15. Gray arrows indicate all potential SAGE tags (NlaIII sites) and black arrows indicate 3' most SAGE tags. The total number of tags observed for each 10 potential tag is indicated above (+ strand) or below (- strand) the tag. As expected, the observed SAGE tags were associated with the 3' end of expressed genes.

15 **Figure 2.** Sampling of Yeast Gene Expression. Analysis of increasing amounts of ascertained tags reveals a plateau in the number of unique expressed genes. Triangles represent genes with known functions, squares represent genes predicted on the basis of sequence information, and circles represent total genes.

20 **Figure 3.** Virtual Rot. (A) Abundance Classes in the Yeast Transcriptome. The transcript abundance is plotted in reverse order on the abscissa, whereas the fraction of total transcripts with at least that abundance is plotted on the ordinate. The dotted lines identify the three components of the curve, 1, 2, and 3. This is analogous 25 to a Rot curve derived from reassociation kinetics where the product of initial RNA concentration and time is plotted on the abscissa, and the percent of labeled cDNA that hybridizes to excess mRNA is plotted on the ordinate. (B) Comparison of Virtual Rot and Rot Components. Transitions and data from virtual Rot components were calculated from the data in Figure 3A, while data for Rot components were obtained from Hereford and Rosbash, 1977.

30 **Figure 4.** Chromosomal Expression Map for *S. cerevisiae*. Individual yeast genes were positioned on each chromosome according to their open reading frame (ORF) start coordinates. Abundance levels of tags corresponding to each gene are displayed on the vertical axis, with transcription from the + strand indicated above the abscissa and that from the - strand indicated below. Yellow bands at ends of the expanded chromosome represent telomeric regions that are undertranscribed (see text

for details).

Figure 5. Northern Blot Analysis of Representative Genes. TDH2/3, TEF1/2 and NORF1, are expressed relatively equally in all three states (lane 1, G2/M arrested; lane 2, S phase arrested; lane 3, log phase), while RNR4, RNR2 , and NORF5 are highly expressed in S-phase arrested cells. The expression level observed by SAGE (number of tags) is noted below each lane and was highly correlated with quantitation of the Northern blot by PhosphorImager analysis ($r^2=0.97$).

TABLE LEGENDS

Table 1. Highly Expressed Genes. Tag represents the 10 bp SAGE tag adjacent to the NlaIII site; Gene represents the gene or genes corresponding to a particular tag (multiple genes that match unique tags are from related families, with an average identity of 93%); Locus and Description denote the locus name and functional description of each ORF, respectively; Copies/cell represents the abundance of each transcript in the SAGE library, assuming 15,000 total transcripts per cell and 60,633 ascertained transcripts.

Table 2. Expression of Putative Coding Sequences. Table column headings are the same as for Table 1.

Table 3. Expression of the most abundant NORF genes. SAGE Tag, Locus, and Copies/cell are the same as for Table 1; Chr and Tag Pos denote the chromosome and position of each tag; ORF Size denotes the size of the ORF corresponding to the indicated tag. In each case, the tag was located within or less than 250 bp 3' of the NORF.

Table 4. Expression of NORF genes. SAGE tag and Copies/cell are the same as for Table 1. Chr and Tag Pos denote the chromosome and position of each tag.

Table 5. Gene expression changes in different cell cycle phases. L denotes log phase; S denotes synthesis phase; G2/M denotes the mitotic phase. Tag Sequence represents the 10 bp SAGE tag adjacent to the NlaIII site; "ratio L to S" denotes the ratio of expression in log phase to expression in synthesis phase; "ratio S to G2/M" denotes the ratio of expression in synthesis phase to expression in G2/M phase; "ratio G2/M to L" denotes the ratio of expression in G2/M to log phase. #DIV/0! indicates

an increase in expression from 0; a value of 0 indicates a decrease in expression to 0; a value of 1 indicates no change; a value less than 1 indicates a decrease in expression; and a value greater than 1 indicates an increase in expression.

5 **Table 6.** Intergenic open reading frames that contain or are adjacent to observed SAGE tags. Copies/cell represents abundance of each mRNA transcript as in Table 1. Positive expression level indicates the tag is on the + strand of the chromosome; Negative expression level indicates the tag is on the - strand.

DETAILED DESCRIPTION

10 It is a discovery of the present invention that certain hitherto unknown genes (the NORFs) exist and are expressed in yeast. These genes, as well as other previously identified and previously postulated genes, can be used to study, monitor, and affect phases of cell cycle. The present invention identifies which genes are differentially expressed during the cell cycle. Differentially expressed genes can be used as markers of phases of the cell cycle. They can also be used to affect a change in the phase of the cell cycle. In addition, they can be used to screen for drugs which affect the cell cycle, by affecting expression of the genes. Human homologs of these eukaryotic genes are also presumed to exist, and can be identified using the yeast genes as probes or primers to identify the human homologs.

15 New genes termed NORFs (not previously assigned open reading frames) have been found. They are uniquely identified by their SAGE tags. In addition their entire nucleotide sequences are known and publicly available. In general, these were not previously identified as genes due to their small size. However, they have now been found to be expressed.

20 Differentially expressed yeast genes are those whose expression varies by a statistically significant difference (to greater than 95% confidence level) within different growth phases, particularly log phase, S phase, and G2/M. Preferably the difference is at least 10%, 25%, 50%, or 100%. In some cases, differentially expressed genes are not expressed at detectable levels in one or more cell cycle phases as determined by SAGE analysis. Genes which have been found to have differential expression characteristics include: NORF Nº 1, 2, 4, 5, 6, 17, 25, 27, TEF1/TEF2,

EN02, ADH1, ADH2, PGK1, CUP1A/CUP1B, PYK1, YKL056C, YMR116C, YEL033W, YOR182C, YCR013C, ribonucleotide reductase 2 and 4, and YJR085C. Differential expression can be detected by any means known in the art, such as hybridization to specific probes or immunological assays.

5 Isolated DNA molecules according to the invention contain less than a whole chromosome and can be genomic or cDNA, *i.e.*, lacking introns. Isolated DNA molecules can comprise a yeast gene or a coding sequence of a yeast gene involved in cell cycle progression, such as NORF genes which comprise SAGE tags as shown in SEQ ID NOS:67-811. Isolated DNA molecules which comprise yeast genes or
10 coding sequences of yeast genes comprising SAGE tags as shown in SEQ ID NOS:37-12,203 are also isolated DNA molecules of the invention. Isolated DNA molecules can also consist of a yeast gene or a coding sequence of a yeast gene which comprises a SAGE tag as shown in SEQ ID NOS:37-12,203 or 67-811.

15 Any technique for obtaining a DNA of known sequence may be used to obtain isolated DNA molecules of the invention. Preferably they are isolated free of other cellular components such as membrane components, proteins, and lipids. They can be made by a cell and isolated, or synthesized using PCR or an automatic synthesizer. Methods for purifying and isolating DNA are routine and are known in the art.

20 To administer yeast genes to cells, any DNA delivery techniques known in the art may be used, without limitation. These include liposomes, transfection, mating, transduction, transformation, viral infection, electroporation. Vectors for particular purposes and characteristics can be selected by the skilled artisan for their known properties. Cells which can be used as gene recipients are yeast and other fungi, mammalian cells, including humans, and bacterial cells.

25 Antifungal drugs can be identified using yeast cells as described herein. Expression of a differentially expressed NORF gene can be monitored by any means known in the art. When a test substance modifies the expression of such a differentially expressed gene, for example by increasing or decreasing its expression, it is a candidate drug for affecting the growth properties of fungi and may be useful
30 as an antifungal agent. Expression of more than one NORF gene can be monitored. For example, expression of 2, 3, 4, 5, 10, 15, 20, 30, 40, 50, 60, 75, 100, 150, 250,

300, 350, 400, 450, or 500 or more NORF genes can be monitored in single or multiple assays.

Because differentially expressed genes are likely to be involved in cell cycle progression, it is likely that these genes are conserved among species. The 5 differentially expressed NORF genes identified by the present invention can be used to identify homologs in humans and other mammals by contacting DNA from these mammals with a probe which comprises at least 10 contiguous nucleotides of a differentially expressed NORF gene. The DNA can be genomic or cDNA, as is known in the art. Means for identifying homologous genes among different species 10 are well known in the art. Briefly, stringency of hybridization can be reduced so that imperfectly matching sequences hybridize. This can be in the context of *inter alia* Southern blots, Northern blots, colony hybridization or PCR. Any hybridization technique which is known in the art can be used. A DNA sequence which hybridizes to the probe is identified as a sequence of a candidate gene which is involved in cell 15 cycle expression.

Probes according to the present invention are isolated DNA molecules which have at least 10, and preferably at least 12, 14, 16, 18, 20, or 25 contiguous nucleotides of a particular NORF gene or other differentially expressed gene. The probes may or may not be labeled. They may be used, for example, as primers for 20 PCR assays, or for detection of gene expression for Southern or Northern blots or *in situ* hybridization. Preferably the probes are immobilized on a solid support. The solid support can be any surface to which a probe can be attached. Suitable solid supports include, but are not limited to, glass or plastic slides, tissue culture plates, microtiter wells, tubes, or particles such as beads, including but not limited to latex, 25 polystyrene, or glass beads. Any method known in the art can be used to attach the a probe to the solid support, including use of covalent and non-covalent linkages, passive absorption, or pairs of binding moieties attached respectively to the probe and the solid support.

More preferably, probes are present on an array so that multiple probes can 30 simultaneously hybridize to a single biological sample. The probes can be spotted onto the array or synthesized *in situ* on the array. See Lockhart et. al., Nature

Biotechnology, Vol. 14, December 1996, "Expression monitoring by hybridization to high-density oligonucleotide arrays." A single array contains at least one NORF probe, but can contain more than 100, 500 or even 1,000 different probes in discrete locations. If desired, one or more NORF probe(s) present on the array can be nucleotide sequences from a NORF gene which is differentially expressed during the cell cycle.

Genes identified by the present invention which are differentially expressed during the cell cycle can also be used to obtain gene expression profiles characteristic of the response of yeast genes of a yeast cell to a particular drug or class of drugs. Classes of drugs of particular interest for which gene expression profiles can be generated include those drugs which affect cell cycle or other cell processes, such as chemotherapeutic agents. If desired, gene expression profiles characteristic of more than one drug of a particular class can be generated and used to make a composite gene expression profile. For example, microtubule poison drugs such as vinblastin, taxol, vincristine, and taxotere can be used to generate gene expression profiles characteristic of microtubule poisons.

To generate a gene expression profile characteristic of a particular drug or class of drugs, a yeast cell is contacted with a particular drug or a member of a particular class of drugs. Expression of at least one yeast gene is monitored, either before and after contacting or in the contacted cell and in another yeast cell which has not been contacted with the drug. Genes which are monitored can be any yeast gene, including NORFs. Preferably, these genes are differentially expressed during the cell cycle. For example, yeast genes can be selected from genes comprising the SAGE tags shown in Tables 3, 4, 5, and 6 (SEQ ID NOS:67-12,203). If desired, genes such as NORF Nº 1, 2, 4, 5, 6, 17, 25, or 27, TEF1/TEF2, EN02, ADH1, ADH2, PGK1, CUP1A/CUP1B, PYK1, YKL056C, YMRI16C, YEL033W, YOR182C, YCR013C, ribonucleotide reductase 2 and 4, and YJR085C, can be used for monitoring alterations in gene expression.

The expression of any number of these genes, such as 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 100, 150, 250, 500, 1000, 2000, 3000, 4000, 5000, or 5,500 genes, can be measured. It is particularly convenient to monitor expression of the

differentially expressed genes using nucleic acids which are immobilized on a solid support or in an array, such as the gene arrays described above.

Many genes, particularly cell cycle genes, are likely to be conserved between yeast and mammals, including humans. Thus, gene expression profiles characteristic of a drug or class of drugs can be used to predict the effects of candidate drugs on human cells, by identifying the candidate drug as a member of a class of drugs whose characteristic gene expression profile is known. The candidate drugs can be pharmacologic agents already known in the art or can be compounds previously unknown to have any pharmacological activity. The candidate drugs can be naturally occurring or designed in the laboratory. They can be isolated from microorganisms, animals, or plants, and can be produced recombinantly or synthesized by chemical methods known in the art.

The effect of a candidate drug on expression of at least one gene whose expression is affected by the class of drugs is monitored. A gene expression profile obtained using the candidate drug which is similar to a gene expression profile for a particular drug or class of drugs identifies the candidate drug as a member of that class of drugs.

The effect of modifying particular substituents of a known drug or of a candidate drug can be similarly tested. Such methods are useful for determining whether alterations intended, for example, to increase solubility or absorption of a particular drug will have an unintended and possibly deleterious effect on genes which are differentially expressed during the cell cycle.

The above disclosure generally describes the present invention. A more complete understanding can be obtained by reference to the following specific examples which are provided herein for purposes of illustration only, and are not intended to limit the scope of the invention.

EXAMPLE

Summary

We have analyzed the set of genes expressed from the yeast genome, herein called the transcriptome, using serial analysis of gene expression (SAGE). Analysis

of 60,633 transcripts revealed 4,665 genes, with expression levels ranging from 0.3 to over 200 transcripts per cell. Of these genes, 1,981 had known functions, while 2,684 were previously uncharacterized. Integration of positional information with gene expression data allowed the generation of chromosomal expression maps, identifying physical regions of transcriptional activity, and identified genes that had not been predicted by sequence information alone. These studies provide insight into global patterns of gene expression in yeast and demonstrate the feasibility of genome-wide expression studies in eukaryotes.

Results

Characteristics and Rationale of SAGE Approach

Several methods have recently been described for the high throughput evaluation of gene expression (Nguyen *et al.*, 1995; Schena *et al.*, 1995; Velculescu *et al.*, 1995). We used SAGE (Serial Analysis of Gene Expression) because it can provide quantitative gene expression data without the prerequisite of a hybridization probe for each transcript. The SAGE technology is based on two basic principles (Figure 1). First, a short sequence tag (9-11 bp) contains sufficient information to uniquely identify a transcript, provided that it is derived from a defined location within that transcript. Second, many transcript tags can be concatenated into a single molecule and then sequenced, revealing the identity of multiple tags simultaneously. The expression pattern of any population of transcripts can be quantitatively evaluated by determining the abundance of individual tags and identifying the gene corresponding to each tag.

Genome-wide expression

In order to maximize representation of genes involved in normal growth and cell-cycle progression, SAGE libraries were generated from yeast cells in three states: log phase, S phase arrested and G2/M phase arrested. In total, SAGE tags corresponding to 60,633 total transcripts were identified (including 20,184 from log phase, 20,034 from S phase arrested, and 20,415 from G2/M phase arrested cells). Of these tags, 56,291

tags (93%) precisely matched the yeast genome, 88 tags matched the mitochondrial genome, and 91 tags matched the 2 micron plasmid.

The number of SAGE tags required to define a yeast transcriptome depends on the confidence level desired for detecting low abundance mRNA molecules. Assuming the previously derived estimate of 15,000 mRNA molecules per cell (Hereford and Rosbash, 1977), 20,000 tags would represent a 1.3 fold coverage even for mRNA molecules present at a single copy per cell, and would provide a 72% probability of detecting such transcripts (as determined by Monte Carlo simulations). Analysis of 20,184 tags from log phase cells identified 3,298 unique genes. As an independent confirmation of mRNA copy number per cell, we compared the expression level of *SUP44/RPS4*, one of the few genes whose absolute mRNA levels have been reliably determined by quantitative hybridization experiments (Iyer and Struhl, 1996), with expression levels determined by SAGE. *SUP44/RPS4* was measured by hybridization at 75 +/- 10 copies/cell (Iyer and Struhl, 1996), in good accord with the SAGE data of 63 copies/cell, suggesting that the estimate of 15,000 mRNA molecules per cell was reasonably accurate. Analysis of SAGE tags from S phase arrested and G2/M phase arrested cells revealed similar expression levels for this gene (range 52 to 55 copies/cell), as well as for the vast majority of expressed genes. As less than 1% of the genes were expressed at dramatically different levels among these three states (see below), SAGE tags obtained from all libraries were combined and used to analyze global patterns of gene expression.

Analysis of ascertained tags at increasing increments revealed that the number of unique transcripts plateaued at ~60,000 tags (Figure 2). This suggested that generation of further SAGE tags would yield few additional genes, consistent with the fact that sixty thousand transcripts represented a four-fold redundancy for genes expressed as low as 1 transcript per cell. Likewise, Monte Carlo simulations indicated that analysis of 60,000 tags would identify at least one tag for a given transcript 97% of the time if its expression level was one copy per cell.

The 56,291 tags that precisely matched the yeast genome represented 4,665 different genes. This number is in agreement with the estimate of 3,000 to 4,000 expressed genes obtained by RNA-DNA reassociation kinetics (Hereford and

Rosbash, 1977). These expressed genes included 85% of the genes with characterized functions (1,981 of 2,340), and 76% of the total genes predicted from analysis of the yeast genome (4,665 of 6,121). These numbers are consistent with a relatively complete sampling of the yeast transcriptome given the limited number of physiological states examined and the large number of genes predicted solely on the basis of genomic sequence analysis.

The transcript expression per gene was observed to vary from 0.3 to over 200 copies per cell. Analysis of the distribution of gene expression levels revealed several abundance classes that were similar to those observed in previous studies using reassociation kinetics. A "virtual Rot" of the genes observed by SAGE (Figure 3A) identified three main components of the transcriptome with abundances ranging over three orders of magnitude. A Rot curve derived from RNA-cDNA reassociation kinetics also contained three main components distributed over a similar range of abundances (Hereford and Rosbash, 1977). Although the kinetics of reassociation of a particular class of RNA and cDNA may be affected by numerous experimental variables, there were striking similarities between Rot and virtual Rot analyses (Figure 3B). Because Rot analysis may not detect all transcripts of low abundance (Lewin, 1980), it is not surprising that SAGE revealed both a larger total number of expressed genes and a higher fraction of the transcriptome belonging to the low abundance transcript class.

Integration of Expression Information with the Genomic Map

The SAGE expression data could be integrated with existing positional information to generate chromosomal expression maps (Figure 4). These maps were generated using the sequence of the yeast genome and the position coordinates of ORFs obtained from the Stanford Yeast Genome Database. Although there were a few genes that were noted to be physically proximal and have similarly high levels of expression, there did not appear to be any clusters of particularly high or low expression on any chromosome. Genes like histones H3 and H4, which are known to have coregulated divergent promoters and are immediately adjacent on chromosome 14 (Smith and Murray, 1983), had very similar expression levels (5 and 6 copies per cell,

respectively). The distribution of transcripts among the chromosomes suggested that overall transcription was evenly dispersed, with total transcript levels being roughly linearly related to chromosome size ($r^2 = 0.85$, data not shown). However, regions within 10 kb of telomeres appeared to be uniformly undertranscribed, containing on average 3.2 tags per gene as compared with 12.4 tags per gene for non-telomeric regions (Figure 4). This is consistent with the previously described observations of "telomeric silencing" in yeast (Gottschling *et al.*, 1990). Recent studies have reported telomeric position effects as far as 4 kb from telomere ends (Renauld *et al.*, 1993).

Gene Expression Patterns

Table 1 lists the 30 most highly expressed genes, all of which are expressed at greater than 60 mRNA copies per cell. As expected, these genes mostly correspond to well characterized enzymes involved in energy metabolism and protein synthesis and were expressed at similar levels in all three growth states (Examples in Figure 5). Some of these genes, including *ENO2* (McAlister and Holland, 1982), *PDC1* (Schmitt *et al.*, 1983), *PGK1* (Chambers *et al.*, 1989), *PYK1* (Nishizawa *et al.*, 1989), and *ADH1* (Denis *et al.*, 1983), are known to be dramatically induced in the glucose-rich growth conditions used in this study. In contrast, glucose repressible genes such as the *GAL1/GAL7/GAL10* cluster (St John and Davis, 1979), and *GAL3* (Bajwa *et al.*, 1988) were observed to be expressed at very low levels (0.3 or fewer copies per cell).

As expected for the yeast strain used in this study, mating type a specific genes, such as the a factor genes (*MFA1*, *MFA2*) (Michaelis and Herskowitz, 1988), and alpha factor receptor (*STE2*) (Burkholder and Hartwell, 1985) were all observed to be expressed at significant levels (range 2 to 10 copies per cell), while mating type alpha specific genes (*MF α 1*, *MF α 2*, *STE3*) (Hagen *et al.*, 1986; Kurjan and Herskowitz, 1982; Singh *et al.*, 1983) were observed to be expressed at very low levels (<0.3 copies/cell).

Three of the highly expressed genes in Table 1 had not been previously characterized. One contained an ORF with predicted ribosomal function, previously identified only by genomic sequence analysis. Analyses of all SAGE data suggested that there were 2,684 such genes corresponding to uncharacterized ORFs which were

transcribed at detectable levels. The 30 most abundant of these transcripts were observed more than 30 times, corresponding to at least 8 transcripts per cell (Table 2).

The other two highly expressed uncharacterized genes corresponded to ORFs not predicted by analysis of the yeast genome sequence (NORF = Nonannotated ORF).

Analyses of SAGE data suggested that there were at least 160 NORF genes transcribed at detectable levels. The 30 most abundant of these transcripts were observed at least 9 times (Table 3 and examples in Figure 5).

Interestingly, one of the NORF genes (NORF5) was only expressed in S phase arrested cells and corresponded to the transcript whose abundance varied the most in

the three states analyzed (> 49 fold, Figure 5). Comparison of S phase arrested cells to the other states also identified greater than 9 fold elevation of the RNR2 and RNR4 transcripts (Figure 5). Induction of these ribonucleoside reductase genes is likely to be due to the hydroxyurea treatment used to arrest cells in S phase (Elledge and Davis, 1989).

Likewise, comparison of G2/M arrested cells identified elevation of RBL2 and dynein light chain, both microtubule associated proteins (Archer *et al.*, 1995; Dick *et al.*, 1996). As with the RNR inductions, these elevated levels seem likely to be related to the nocodazole treatment used to arrest cells in the G2/M phase. While there were many relatively small differences between the states (for example, NORF1, Figure 5), overall comparison of the three states revealed surprisingly few dramatic differences; there were only 29 transcripts whose abundance varied more than 10 fold among the three different states analyzed (Tables 4 and 5).

A comprehensive analysis for NORF genes was performed using the SAGE data. Yeast genome intergenic regions were defined as regions outside annotated

ORFs or the 500bp region downstream of annotated ORFs (yeast genome sequence and tables of annotated ORFs were obtained from SGD at <http://genome-www.stanford.edu/Saccharomyces/>). Based on sequence analysis a total of 9524 putative ORFs of 25-99 amino acids were present in the intergenic regions; 510 of these ORFs contain or are adjacent to observed SAGE tags (Table 6).

Of the 60,633 SAGE tags analyzed, there were 302 unique SAGE tags either within or adjacent to intergenic ORFs (100bp upstream or 500bp downstream of the ORF) (Table 6). Note that in some cases, more than one NORF contains or is adjacent to the

SAGE tag. These tags matched the genome uniquely, were in the correct orientation, and were expressed at levels greater than 0.3 transcript copies per cell.

The expression level for each NORF shown in Table 6 corresponds to the number of mRNA transcript copies per cell. If the expression level is positive it means that the tag is on the + strand of the chromosome; if negative, the tag is on the - strand of the chromosome.

Discussion

Analysis of a yeast transcriptome affords a unique view of the RNA components defining cellular life. Comparison of gene expression patterns from altered physiologic states can provide insight into genes that are important in a variety of processes. Comparison of transcriptomes from a variety of physiologic states should provide a minimum set of genes whose expression is required for normal vegetative growth, and another set composed of genes that will be expressed only in response to specific environmental stimuli, or during specialized processes. For example, recent work has defined a minimal set of 250 genes required for prokaryotic cellular life (Mushegian and Koonin, 1996). Examination of the yeast genome readily identified homologous genes for 196 of these, over 90% of which were observed to be expressed in the SAGE analysis. Detailed analyses of yeast transcriptomes, as well as transcriptomes from other organisms, should ultimately allow the generation of a minimal set of genes required for eukaryotic life.

Like other genome-wide analyses, SAGE analysis of yeast transcriptomes has several potential limitations. First, a small number of transcripts would be expected to lack an NlaIII site and therefore would not be detected by our analysis. Second, our analysis was limited to transcripts found at least as frequently as 0.3 copies per cell. Transcripts expressed in only a minute fraction of the cell cycle, or transcripts expressed in only a fraction of the cell population, would not be reliably detected by our analysis. Finally, mRNA sequence data are practically unavailable for yeast, and consequently, some SAGE tags cannot be unambiguously matched to corresponding genes. Tags which were derived from overlapping genes, or genes which have unusually long 3' untranslated regions may be misassigned. Increased availability of

3' UTR sequences in yeast mRNA molecules should help to resolve the ambiguities.

Despite these potential limitations, it is clear that the analyses described here furnish both global and local pictures of gene expression, precisely defined at the nucleotide level. These data, like the sequence of the yeast genome itself, provide simple, basic information integral to the interpretation of many experiments in the future. The availability of mRNA sequence information from EST sequencing as well as various genome projects, will soon allow definition of transcriptomes from a variety of organisms, including human. The data recorded here suggest that a reasonably complete picture of a human cell transcriptome will require only about 10 - 20 fold more tags than evaluated here, a number well within the practical realm achievable with a small number of automated sequencers. The analysis of global expression patterns in higher eukaryotes is expected, in general, to be similar to those reported here for *S. cerevisiae*. However, the analysis of the transcriptome in different cells and from different individuals should yield a wealth of information regarding gene function in normal, developmental, and disease states.

Experimental Procedures

Yeast cell culture

The source of transcripts for all experiments was *S. cerevisiae* strain YPH499 (*MATa ura3-52 lys2-801 ade2-101 leu2-Δ1 his3-Δ200 trp1-Δ63*) (Sikorski and Hieter, 1989). Logarithmically growing cells were obtained by growing yeast cells to early log phase (3×10^6 cells/ml) in YPD (Rose *et al.*, 1990) rich medium (YPD supplemented with 6 mM uracil, 4.8 mM adenine and 24 mM tryptophan) at 30°C. For arrest in the G1/S phase of the cell cycle, hydroxyurea (0.1 M) was added to early log phase cells, and the culture was incubated an additional 3.5 hours at 30°C. For arrest in the G2/M phase of the cell cycle, nocodazole (15 µg/ml) was added to early log phase cells and the culture was incubated for an additional 100 minutes at 30°C. Harvested cells were washed once with water prior to freezing at -70°C. The growth states of the harvested cells were confirmed by microscopic and flow cytometric analyses (Basrai *et al.*, 1996).

SAGE protocol

The SAGE method was performed as previously described (Velculescu *et al.*, 1995; Kinzler *et al.*, U.S. Patents 5,866,330 and 5,695,937), with exceptions noted below. PolyA RNA was converted to double-stranded cDNA with a BRL synthesis kit using the manufacturer's protocol except for the inclusion of primer biotin-5'-T₁₈-3'. The cDNA was cleaved with NlaIII (Anchoring Enzyme). As NlaIII sites were observed to occur once every 309 base pairs in three arbitrarily chosen yeast chromosomes (1, 5, 10), 95% of yeast transcripts were predicted to be detectable with a NlaIII-based SAGE approach. After capture of the 3' cDNA fragments on streptavidin coated magnetic beads (Dynal), the bound cDNA was divided into two pools, and one of the following linkers containing recognition sites for BsmFI was ligated to each pool:

Linker 1, 5'-TTGGATTGCTGGTGCAGTACAACCTAGGCTTAATAGGGACATG-3' (SEQ ID NO:1).5'-TCCCTATTAAGCCTAGTTGTACTGCACCAGCAAATCC [amino mod. C7]-3'(SEQ ID NO:2);

Linker 2, 5'-TTCTGCTCGAATTCAAGCTTCTAACGATGTACGGGGACATG-3' (SEQ ID NO:3) , 5'-TCCCCGTACATCGTTAGAAGCTTGAATTGAGCAG[amino mod. C7]-3' (SEQ ID NO:4).

As BsmFI (Tagging Enzyme) cleaves 14 bp away from its recognition site, and the NlaIII site overlaps the BsmFI site by 1 bp, a 15 bp SAGE tag was released with BsmFI. SAGE tag overhangs were filled-in with Klenow, and tags from the two pools were combined and ligated to each other. The ligation product was diluted and then amplified with PCR for 28 cycles with 5'-GGATTGCTGGTGCAGTACA-3' (SEQ ID NO:5) and 5'-CTGCTCGAATTCAAGCTTCT-3' (SEQ ID NO:6), as primers. The PCR product was analyzed by polyacrylamide gel electrophoresis (PAGE), and the PCR product containing two tags ligated tail to tail (ditag) was excised. The PCR product was then cleaved with NlaIII, and the band containing the ditags was excised and self-ligated. After ligation, the concatenated products were separated by PAGE and products between 500 bp and 2 kb were excised. These products were cloned into the SphI site of pZero (Invitrogen). Colonies were screened for inserts by PCR with M13 forward and M13 reverse sequences located outside the cloning site as primers.

PCR products from selected clones were sequenced with the TaqFS DyePrimer kits (Perkin Elmer) and analyzed using a 377 ABI automated sequencer (Perkin Elmer), following the manufacturer's protocol. Each successful sequencing reaction identified an average of 26 tags; given a 90% sequencing reaction success rate, this
5 corresponded to an average of about 850 tags per sequencing gel.

SAGE data analysis

Sequence files were analyzed by means of the SAGE program group (Velculescu *et al.*, 1995), which identifies the anchoring enzyme site with the proper spacing and extracts the two intervening tags and records them in a database. The 68,691 tags obtained contained 62,965 tags from unique ditags and 5,726 tags from repeated ditags. The latter were counted only once to eliminate potential PCR bias of the quantitation, as described (Velculescu *et al.*, 1995). Of 62,965 tags, 2,332 tags corresponded to linker sequences, and were excluded from further analysis. Of the remaining tags, 4,342 tags could not be assigned, and were likely due to sequencing errors (in the tags or in the yeast genomic sequence). If all of these were due to tag sequencing errors, this corresponds to a sequencing error rate of about 0.7% per base pair (for a 10bp tag), not far from what we would have expected under our automated sequencing conditions. However, some unassigned tags had a much higher than expected frequency of A's as the last five base pairs of the tag (5 of the 52 most abundant unassigned tags), suggesting that these tags were derived from transcripts containing anchoring enzyme sites within several base pairs from their polyA tails. Given the frequency of NlaIII sites in the genome (one in 309 base pairs), approximately 3% of transcripts were predicted to contain NlaIII sites within 10 bp of
10 their polyA tails.
15
20
25

As very sparse data are available for yeast mRNA sequences and efforts to date have not been able to identify a highly conserved polyadenylation signal (Irniger and Braus, 1994; Zaret and Sherman, 1982), we used 14 bp of SAGE tags (i.e. the NlaIII site plus the adjacent 10 bp) to search the yeast genome directly (yeast genome sequence obtained from the Stanford yeast genome ftp site (genome-ftp.stanford.edu) on August 7, 1996). Because only coding regions are annotated in the yeast genome,
30

and SAGE tags can be derived from 3' untranslated regions of genes, a SAGE tag was considered to correspond to a particular gene if it matched the ORF or the region 500 bp 3' of the ORF (locus names, gene names and ORF chromosomal coordinates were obtained from Stanford yeast genome ftp site, and ORF descriptions were obtained from MIPS www site (<http://www.mips.biochem.mpg.de/>) on August 14, 1996).
5 ORFs were considered genes with known functions if they were associated with a three letter gene name, while ORFs without such designations were considered uncharacterized.

As expected, SAGE tags matched transcribed portions of the genome in a highly
10 non-random fashion, with 88% matching ORFs or their adjacent 3' regions in the correct orientation (chi-squared P value <10⁻³⁰). In instances when more than one tag matched a particular ORF in the correct orientation, the abundance was calculated to be the sum of the matched tags. Tags that matched ORFs in the incorrect orientation were not used in abundance calculations. In instances when a tag matched more than
15 one region of the genome (for example an ORF and non-ORF region) only the matched ORF was considered. In some cases the 15th base of the tag could also be used to resolve ambiguities.

For the identification of NORF genes, only tags were considered that matched portions of the genome that were further than 500 bp 3' of a previously identified ORF
20 and were observed at least two times in the SAGE libraries.

Table 1. Highly expressed genes

Tag	Seq. ID No.	Gene	Locus	Copies/cell	Description
GGTGTTAACG	7	TDP42/TDH3	YDR042W/YBR16W	425	glucosidase-3-phosphate dehydrogenases 2 & 3
AGACCAACTG	8	TEF1/TEF2	YPR026W/YBR16W	245	Cytosolic elongation factor eEF-1 alpha-A chain
TACCACTCT	9	ENO2	YMR174W	229	2-phosphoglycerate dehydrogenase
GGTTRGGT	10	RPLA1, A2, A3, 10E	YOL030W/YWL030W	207	acidic ribosomal protein a1 / P2.beta / L44prime / L10
TTCACAGCT	11	PDC1	YLR04C	207	pyruvate decarboxylase isozyme 1
GTTGAAAGCG	12	ADH1, ADH2	YOL039W/YML18C	182	alcohol dehydrogenase I / II
ATGCCGCTC	13	GPM1	YAL18C	188	phosphoglycerate mutase
GTTCTTAAGA	14	FBA1	YLR08C	168	fructose-biphosphate aldolase II
TTAGTTCTA	15	RPLA7A	YOL14C	143	ribosomal protein
TCTCTACTGG	16	PGK1	YCR012W	139	phosphoglycerate kinase
GGTTGGGT	17	RPLA4	YDR32W	138	acidic ribosomal protein L45
GTTGCAAGCTT	18	SSM1A / SSM1B	YPL18W / YGR130W	128	ribosomal protein
AATCCAGTTG	19	RPL5A / RPL5B	YDR18W / YPR011C	102	ribosomal protein
TTGCTTCACT	20		NORF1	94	nontranslated ORF
ACAGGACCAG	21	RPL16A / RPL16B	YPR14C / YR036C	83	ribosomal protein
CTGACTCTGG	22	CUP1A / CUP1B	YPR036C / YPR036W	75	metallothionein
GCATCTACTAC	23		NORF2	73	ribosomal protein S10 / similarity to ribosomal protein S10
GCCTCCGCC	24			73	nontranslated ORF
AAAGCACAG	25			70	ribosomal protein
TGTCTGTTGG	26	RPS31A	YDR07C	69	ribosomal protein
OCAAAGGGTAT	27	RPS28A	YGR119W	69	ribosomal protein
TCTCCAGAG	28	RPL38	YDR60C	69	ribosomal protein
GTTTTCTT	29	PYK1	YAL039W	69	ribosomal protein
ATCACTGGTG	30	RPL1A / RPL9B	YGL14C / YL027W	68	ribosomal protein L9
ATGAAGGTC	31	RPL27A	YDR01W	68	ribosomal protein L27
GTAGAGGCCG	32	RPS21	YOL04C	67	ribosomal protein
GTTACTGATG	33	RPL43A	YOL05W	67	ribosomal protein L31
CCAGATTGTT	34	NAB1A / NAB1B	YGR214W / YLR04W	67	40S ribosomal protein p40 homolog A
GTGCGGTCCA	35	UFP1A	YLR10W	62	ribosomal protein L21
CAAAACCCAA	36	RPS18B	YML02C	60	ribosomal protein S18

Table 2. Putative coding sequences

SAGE Tag	Seq. ID No.	Locus	Copies/Cell	Description
TGAACTTAC	37	YKL058C	58	strong similarity to human IgE-dependent histamine-releasing factor (21K tumor protein)
TCCGGGTAC	38	YDR276C	56	strong similarity to <i>Hordeum vulgare</i> bt101 protein
CCAGATATGA	39	YIL083C	41	hypothetical protein
TTAAAATGG	40	YMR116C	38	similarity to <i>N.crassa</i> CPC2 protein
GGTGTCGTG	41	YBR078W	34	strong similarity to sporulation specific Sps2p
TACTCTTGC	42	YEL033W	33	hypothetical protein
TGTAAATTAA	43	YOR182C	28	homology to human ubiquitin-like protein/ribosomal protein S30
GGAGATCTTG	44	YCR013C	24	weak similarity to <i>M.lepra</i> B1498_F1_41 protein
TCAAGAAGTT	45	YER058AC	20	strong similarity to ribosomal protein L34
AAAACCTTG	46	YIL051C	18	strong similarity to YER057c
AAGTGAACA	47	YPR043W	17	ribosomal protein L37
GGGTGGGGT	48	YDR032C	16	strong similarity to YCR004c and <i>S.pombe</i> obr1
TGACTCTTG	49	YLR380W	14	hypothetical protein
GGTCAATGCG	50	YJR105W	11	hypothetical protein
TAAGAATTCT	51	YJL158C	11	member of the PrrpHsp150p/Prr3p family
TCAATTATGT	52	YDR033W	11	strong similarity to putative heat shock protein YRO2
ACGGGCCAAGA	53	YBR162C	10	similarly to YJL171p
TGGGCTAGT	54	YJL171C	10	similarly to YBR162c
CCTCCAGGT	55	YIR085C	10	hypothetical protein
CCTCTCTTGT	58	YOR310C	10	homology to SIK1 protein
CCCAAACTT	57	YEL018W	9	weak similarity to Rad50p
ACAAAGTACT	58	YGL037C	9	similarity to <i>E.coli</i> hypothetical 23K protein
AGAGATAAAA	59	YER072W	8	similarity to YFL004w
CAAAGACCG	60	YML058C	8	homology to human IMP dehydrogenase 1
GGTTTTGAT	61	YOR182C	8	homology to human ubiquitin-like protein/ribosomal protein S30
CAATCCATT	62	YBR106W	8	hypothetical protein
TTGGGTCT	63	YMR318C	8	putative alcohol-dehydrogenase
ACTGTCCAT	64	YDR428C	8	similarity to nuclear RNA binding protein
CCAAGGTTAA	65	YAR002AC	8	strong similarity to YGL002w
GGTTTTGAA	66	YOR273C	8	putative resistance protein

Table 3. NORF genes

SAGE Tag	Seq. ID No.	Locus	Copies/Cell	Chr	Tag Pos	ORF Size (bp)
TTCGTTCACT	67	NORF1	94	4	1489450	198
GCTCTCCCCC	68	NORF2	73	16	75633	243
TGTACGCCATT	69	NORF3	16	15	301251	189
TTTATTATC	70	NORF4	15	6	223182	177
CTTCCTTT	71	NORF5	12	13	158973	204
TTCCCTATAA	72	NORF6	11	13	511754	252
TCTAGTCGCC	73	NORF7	10	12	669659	182
ATCGTTTAT	74	NORF8	8	15	877140	174
GGCCAATGGT	75	NORF9	8	4	1202289	267
ACCCCTGTCA	76	NORF10	7	2	418633	255
AAGAGATCAT	77	NORF11	7	4	1489453	87
CAGAAATGG	78	NORF12	6	8	115855	279
TGACATTCTT	79	NORF13	6	16	883669	183
TAGACATCTA	80	NORF14	6	2	491117	141
TGCCCTGGCC	81	NORF15	5	5	166452	216
GGTTTGGCG	82	NORF16	4	3	24169	291
CCATACAGGT	83	NORF17	4	12	673851	114
CCAAATCAA	84	NORF18	3	4	229494	258
AAGGGGTACT	85	NORF19	3	9	47889	399
AACGCTTC	86	NORF20	3	2	351456	198
GAGGATAGAG	87	NORF21	3	2	356201	240
CAATGAACCG	88	NORF22	3	16	75541	243
TCTTATATA	89	NORF23	3	1	73363	90
CGCCTCCAGT	90	NORF24	3	7	485774	108
TACGTAAGT	91	NORF25	3	10	156139	81
GATTTAAC	92	NORF26	3	15	254749	83
GCGCCTCCAA	93	NORF27	2	5	42622	222
CAATGGCCCA	94	NORF28	2	13	511751	78
TTGAGGAACG	95	NORF29	3	3	154681	264
GCTAAGAAC	96	NORF30	2	4	302607	204

Additional NORFs

SAGE Tag	Seq. ID N	Chr	Tag P	Copies/cell
GGCGCAATTT	97	4	1108395	2
TAAGTGATGA	98	7	593382	2
TTGTTGAATT	99	10	608373	2
GAAGCAGTAA	100	3	155607	2
ACATATGTTA	101	4	916112	2
CCCTACACGG	102	6	223289	2
GTAATTGGAC	103	10	392099	2
ATCAGACAAA	104	14	687272	2
TTATGAAAGA	105	15	81263	2
ATTCGTTCTA	106	15	841970	2
AGCAGGAGTT	107	16	188350	2
TTCTATTAGG	108	2	418749	2
TGGATTTCAG	109	4	1224930	2
CAGATATAAT	110	5	52488	2
CTGTTTGGG	111	11	374761	2
CATTTTTAGT	112	11	508212	2
TTGAAAAGAT	113	13	104160	2
TAAGCCCATC	114	13	251273	2
AGCGTCCTCA	115	15	832420	2
TTTAGTTAAC	116	2	477623	2
ATGGTAGGCCA	117	3	56961	2
AATTAGACTA	118	3	162589	2
AGTGACTCTT	119	4	1490879	2
GGACTATAAG	120	5	251266	2
ACTTTTCAG	121	10	159213	2
GTCATATAGT	122	13	158765	2
CAACAAAGTG	123	13	171166	2
GTGGGAAAGG	124	13	804600	2
TACTTTATAT	125	16	366449	2
AATACCAGCG	126	3	175540	1
GCCTTGTATA	127	4	372624	1
GGTACATTCA	128	5	67152	1
GATTTCTCTG	129	5	187462	1
TAGTTGCTCC	130	7	317108	1
GTAAGAAATC	131	7	836202	1
CTTGGGCTAT	132	8	107992	1
AAATGGTGAT	133	11	558686	1
ATCATTGGG	134	12	199358	1
CTGAACCTTA	135	12	283720	1
CCAGAAGGAG	136	13	652873	1
CCGGTTACTA	137	15	803663	1
CGATGAGAAG	138	15	1004369	1
AAACCGTCCC	139	16	199141	1
TCATTCTAC	140	2	164728	1
TATCTTTTG	141	4	169784	1
TTAGAATAAT	142	4	603508	1
GTACGCTGTG	143	5	118089	1
TATATTAATT	144	6	64228	1

GTTCTTGCCT	145	7	939579	1
ATATAGCTGC	146	10	181144	1
CCAAAAAAA	147	11	91785	1
GAACTCCACA	148	11	94125	1
CCTTCAGTGC	149	11	374172	1
CACATCATAA	150	11	625896	1
GAAGTATTGA	151	12	603999	1
TGCGCGTATA	152	13	206410	1
GGGTAGTACT	153	13	671730	1
TAGTTTGTC	154	15	33475	1
CAATTCCCTAC	155	1	172182	0.8
TTTGATTGAA	156	2	46431	0.8
GGCTCTGGTT	157	2	414510	0.8
CAGAAATAGC	158	2	565130	0.8
CTGTTATTTT	159	2	616054	0.8
CGAAGTCAAA	160	2	680605	0.8
CTCTAGATAA	161	3	171584	0.8
AGTCAAAATG	162	4	192750	0.8
GCGAGTTAG	163	4	691301	0.8
GCTCCAATAG	164	4	1131020	0.8
TTTATTGAG	165	4	1237501	0.8
GTTATATTGA	166	4	1401803	0.8
TGGGTTGAAG	167	5	251266	0.8
ATTTTATTG	168	5	447729	0.8
ATCATAAAAA	169	5	548612	0.8
TTATATAAAA	170	6	223182	0.8
CTACTTCTGC	171	8	34853	0.8
ATAAGACAGT	172	10	227802	0.8
TTCATAAGTT	173	10	471894	0.8
TAAATCTGAG	174	11	145617	0.8
CTGGTAGAAA	175	11	151174	0.8
CACGTACACA	176	11	403208	0.8
CCAAGATCAA	177	11	425882	0.8
AGCTTGTCC	178	12	234966	0.8
CACATTCGTT	179	12	759953	0.8
CTTACATATA	180	12	789781	0.8
TCTATAGCAA	181	13	228936	0.8
CCTTTCTGAA	182	13	297985	0.8
CCTTTAGAAC	183	13	777999	0.8
AATTAACACC	184	13	842122	0.8
GCGCAGGGGC	185	14	440984	0.8
TGTTTATAAA	186	14	661710	0.8
AAAAGTCATT	187	15	32081	0.8
TTCGTAAACT	188	15	680625	0.8
TTTTTGGAGT	189	15	888343	0.8
AGGCATCTG	190	16	250284	0.8
AAATCAAAAC	191	16	453890	0.8
AATTGACGAA	192	16	560169	0.8
TTGATGATTT	193	16	582360	0.8
CCTGTTTTG	194	16	643476	0.8
TTTTTAAAAAA	195	1	101436	0.5

AAGTTTGATC	196	1	199848	0.5
AGCACCTATG	197	2	46913	0.5
TGATTATCC	198	2	418948	0.5
ACTGCATCTG	199	2	680860	0.5
CAAGTTAGGA	200	2	744770	0.5
ATACCCAATT	201	3	29939	0.5
AACTTTGTAT	202	3	30056	0.5
GCGGCCGGTG	203	3	41845	0.5
AAAATTGTTTC	204	3	57108	0.5
TCAAGTACTC	205	3	157855	0.5
AACTGTATGC	206	3	223882	0.5
CTATCGGCCA	207	3	278840	0.5
ACAAGCCCCA	208	3	289917	0.5
GTACAGGGCT	209	4	93873	0.5
AAGATCATCG	210	4	254851	0.5
GAACCTCTGG	211	4	340891	0.5
GAACGAGAAG	212	4	371850	0.5
TTTTTAATAC	213	4	372058	0.5
TCTCCAGTTG	214	4	381712	0.5
AATACTTAC	215	4	471791	0.5
ACGATTGGCT	216	4	509158	0.5
TGTTTATAAG	217	4	521709	0.5
CGTTTTCGTC	218	4	538839	0.5
TCGAACCTCT	219	4	578702	0.5
TCCACACACA	220	4	930972	0.5
CCGTGCGTGC	221	4	1324367	0.5
TTTCTTCAAC	222	5	116099	0.5
CCAAGTCTCG	223	5	159320	0.5
AGAGCGAATT	224	5	207517	0.5
TGTAGATTAT	225	5	280465	0.5
AAAAGTAGTT	226	5	286387	0.5
ACTTGGTATG	227	5	422942	0.5
TTAATGTTAT	228	5	544523	0.5
TACACGCGCG	229	5	544555	0.5
GGTCACTCCT	230	6	62983	0.5
AAGTGATGAA	231	6	76141	0.5
TTTATCTTGT	232	6	130327	0.5
AGTGATTGTT	233	6	256223	0.5
GCTTTGTTGT	234	7	72577	0.5
TCATTGATTG	235	7	110590	0.5
TTCACCGGAA	236	7	323655	0.5
ACTATTCTGT	237	7	423957	0.5
GGGCCAACCC	238	7	433787	0.5
AAAATATCTT	239	7	559397	0.5
TAGTAGTAAC	240	7	622201	0.5
AAGCGCACAA	241	7	735909	0.5
TCGCTGTTT	242	7	800300	0.5
TGTATTTTG	243	7	836202	0.5
CTAAACAAAG	244	7	836587	0.5
TAGGAAGAAA	245	7	905046	0.5
GGAAAAATTA	246	7	958839	0.5

TTTGGATAGT	247	7	974754	0.5
CGTTTGTA	248	8	202655	0.5
AGAAAAAAAC	249	8	386651	0.5
TAAAGTCCAG	250	8	518998	0.5
TAAGCAGATT	251	8	529129	0.5
ATGAGCATT	252	9	97114	0.5
AGGTGCAAAA	253	9	229077	0.5
TAACAAAGAG	254	10	628227	0.5
CAATTGGCAA	255	10	721781	0.5
ACTCCCTGTA	256	11	93528	0.5
CTCTATTGAT	257	11	144281	0.5
GCTTCCTT	258	11	146665	0.5
ACCGCAAAGA	259	11	231872	0.5
CTTGTTCAAA	260	12	230972	0.5
AATGTGCTGT	261	12	320426	0.5
GCAGATAGCG	262	12	341324	0.5
TCTGACTTAG	263	12	368780	0.5
CCCGGATGTT	264	12	433912	0.5
GTAACGATTG	265	12	449917	0.5
GAATAACGAA	266	12	673851	0.5
ACTGCTATT	267	12	712476	0.5
GTTCTCTAGC	268	12	712712	0.5
CATCACCATC	269	12	794710	0.5
TTGCACTTCT	270	12	806833	0.5
ACTGTTATG	271	12	887350	0.5
TTGCTATATA	272	12	1017911	0.5
TACATTCTAA	273	13	95707	0.5
CTCTTAGTTG	274	13	158970	0.5
ACGAACACTT	275	13	278341	0.5
TGCGCAAGTC	276	13	283795	0.5
TTTTCTTAA	277	13	363037	0.5
CAAATGCATT	278	13	390802	0.5
CAAATTGTGT	279	13	395599	0.5
GCAATACTAT	280	13	828521	0.5
AGTGACGATG	281	14	60143	0.5
TAATGGTTA	282	14	118854	0.5
GTTTGACCTA	283	14	335512	0.5
AGCGTTTGAT	284	14	478481	0.5
CTCTGTTGCG	285	14	728251	0.5
AAATTCAAAA	286	15	35952	0.5
TTTGCTTGGT	287	15	242742	0.5
AGTTTCTCTG	288	15	304813	0.5
TTTAAAGATA	289	15	331453	0.5
AAGGAGACAC	290	15	448624	0.5.
CTATATATCA	291	15	544530	0.5
GATGGAATAG	292	15	571210	0.5
TCGAGTCGAA	293	15	758202	0.5
AAAAAAAGAAA	294	15	882567	0.5
TTTCCAGAAC	295	15	969884	0.5
TGGACAATGT	296	15	970607	0.5
GGAATTAAAGA	297	15	979894	0.5

ACTATATGTT	298	16	582230	0.5
GATATATCAT	299	16	589647	0.5
AGAATTGATT	300	16	744406	0.5
CACTGTCTCC	301	16	824649	0.5

Table 5. Gene expression changes in different cell cycle phases

Table 5, cont.

71	95	104	CCAGATTTGT	839	1.3	1.1	1.5
40	75	138	GCTGCTCAA	840	1.9	1.8	3.5
64	39	146	GTGCCGTCAA	841	0.6	3.7	2.3
69	67	105	CAAACCCAA	842	1.0	1.6	1.5
56	83	98	CCATCTTAC	843	1.5	1.2	1.7
119	35	79	TGAACTACC	844	0.3	2.3	0.7
85	71	74	AACATCAAGC	845	0.8	1.0	0.9
72	51	106	GAACACTCT	846	0.7	2.1	1.5
71	69	87	TTGGGTCAAC	847	1.0	1.3	1.2
48	85	93	TGTCCTGTTT	848	1.8	1.1	1.9
82	110	26	ACATCTCATTA	849	1.3	0.2	0.3
68	71	78	GTCAGATTGG	850	1.0	1.1	1.1
81	38	84	AAGGTCAAGA	851	0.5	2.2	1.0
54	80	66	TAACTGGACT	852	1.5	0.8	1.2
42	56	100	TCTTGAGAAT	853	1.3	1.8	2.4
80	39	76	CTCTACTGTCA	854	0.5	1.9	1.0
42	50	97	CTCAATCCAA	855	1.2	1.9	2.3
107	41	37	TCTTCTCGTT	856	0.4	0.9	0.3
83	64	30	TTGTCCTTGG	857	0.8	0.5	0.4
74	43	53	CCACGGTTCT	858	0.6	1.2	0.7
41	45	79	CCAGATATGA	859	1.1	1.8	1.9
151	8	4	GTTTCAACGG	860	0.1	0.5	0.0
52	44	66	GACGTCACTA	861	0.8	1.5	1.3
42	24	93	ACAAGATCTT	862	0.6	3.9	2.2
40	50	69	GATAAATACC	863	1.3	1.4	1.7
54	37	67	GTTTATGGCCA	864	0.7	1.8	1.2
42	48	64	ACATCAATTGA	865	1.1	1.3	1.5
37	47	69	TTCAAAAGAA	866	1.3	1.5	1.9

Table 5, cont.

81	42	30	TTAAAATGG	867	0.5	0.7	0.4
37	40	73	AGAAAGCAAG	868	1.1	1.8	2.0
47	30	73	AGAATCTTGA	869	0.6	2.4	1.6
52	55	43	ATCTTTAATT	870	1.1	0.8	0.8
41	56	47	AGACCATTGC	871	1.4	0.8	1.1
36	29	79	GCTGCTAGAC	872	0.8	2.7	2.2
83	20	39	GAAGAATTAG	873	0.2	2.0	0.5
51	31	59	CTGGCAAACC	874	0.6	1.9	1.2
49	47	43	CACAACTAC	875	1.0	0.9	0.9
58	49	32	GGGTGTCGTG	876	0.8	0.7	0.6
55	47	37	TACTTCAACT	877	0.9	0.8	0.7
26	48	64	CACACCAAGA	878	1.8	1.3	2.5
52	35	49	GCAAAGACCT	879	0.7	1.4	0.9
57	28	50	AAC TAAACTG	880	0.5	1.8	0.9
35	64	36	GGTAACGTA	881	1.8	0.6	1.0
38	36	60	AAGGACAGAG	882	0.9	1.7	1.6
31	15	87	ACCCAGCTC	883	0.5	5.8	2.8
48	20	65	TACTCTTCGC	884	0.4	3.3	1.4
57	39	37	TCGCTTCATT	885	0.7	0.9	0.6
48	47	37	AAATGAATT	886	1.0	0.8	0.8
22	38	72	GGTACTGAAG	887	1.7	1.9	3.3
38	41	51	TCCGAGTCCG	888	1.1	1.2	1.3
36	50	41	TACACAATT	889	1.4	0.8	1.1
64	47	16	TA TTG TACTT	890	0.7	0.3	0.3
7	111	9	TCTAAGTCCG	891	15.9	0.1	1.3
32	43	49	GGATGATGAA	892	1.3	1.1	1.5
34	33	54	GATGTCATCA	893	1.0	1.6	1.6
43	34	44	TGGCTGGG	894	0.8	1.3	1.0

Table 5, cont.

56	28	36	AACGGCTTTAA	895	0.5	1.3	0.6
40	50	30	TACAATTAA	896	1.3	0.6	0.8
3	114	0	ACGTTCTTT	897	38.0	0.0	0.0
37	32	48	TTTCTCAAGT	898	0.9	1.5	1.3
33	29	53	GGTACTTGA	899	0.9	1.8	1.6
52	40	21	TTGAAATTIT	900	0.8	0.5	0.4
41	16	54	AAGAAGGCCAG	901	0.4	3.4	1.3
57	29	25	GCTGCTATGC	902	0.5	0.9	0.4
23	68	19	TTTACCAGTT	903	3.0	0.3	0.8
53	14	42	AGGAATTCA	904	0.3	3.0	0.8
35	34	39	CTGTCTCTGA	905	1.0	1.1	1.1
31	55	22	TGGGTAGTG	906	1.8	0.4	0.7
39	55	12	TGTAATTAVA	907	1.4	0.2	0.3
51	24	31	TTTCCCAGT	908	0.5	1.3	0.6
9	85	9	GAAAACATCT	909	9.4	0.1	1.0
25	46	31	CCATTCTGGG	910	1.8	0.7	1.2
46	37	17	GAATACTAG	911	0.8	0.5	0.4
56	17	24	AGAAGAGCTA	912	0.3	1.4	0.4
56	21	20	GCTTTAACIT	913	0.4	1.0	0.4
20	60	17	GGAGATCTG	914	3.0	0.3	0.9
15	31	51	GTTTTCCCAA	915	2.1	1.6	3.4
20	26	50	CACGAAAAAGC	916	1.3	1.9	2.5
30	19	46	TGTCTCAGGG	917	0.6	2.4	11.5
33	40	20	TCTAGTCTCT	918	1.2	0.5	0.6
27	19	46	GCTGCCAGAC	919	0.7	2.4	1.7
22	29	40	TAGAAAGGT	920	1.3	1.4	1.8
38	47	4	AAAAAAAAA	921	1.2	0.1	0.1
31	37	20	GTGCCGCCAT	922	1.2	0.5	0.6

Table 5, cont.

42	14	31	CCTGTTGAG	923	0.3	2.2	0.7
34	23	30	TTGTCCTTT	924	0.7	1.3	0.9
32	22	32	AATTCTTGA	925	0.7	1.5	1.0
29	33	23	ATCTCCAATG	926	1.1	0.7	0.8
15	28	41	AGAAAACAA	927	1.9	1.5	2.7
47	28	7	AATTATTAAG	928	0.6	0.3	0.1
38	37	7	ATTAATATC	929	1.0	0.2	0.2
12	31	39	TCAAGAAGTT	930	2.6	1.3	3.3
44	22	15	ACGGCCACTC	931	0.5	0.7	0.3
18	22	40	GGACCTGCCG	932	1.2	1.8	2.2
18	38	23	ACTTTTAAAT	933	2.1	0.6	1.3
37	24	15	GTTGTTTCA	934	0.6	0.6	0.4
13	59	4	TITATATAAA	935	4.5	0.1	0.3
21	23	30	CACTTCAACA	936	1.1	1.3	1.4
28	15	29	AAAACTTTG	937	0.5	1.9	1.0
15	16	40	AACTGTGCTG	938	1.1	2.5	2.7
22	20	26	GAAATCTGGT	939	0.9	1.3	1.2
11	11	46	GAGGACGCCA	940	1.0	4.2	4.2
19	28	21	TITTTACAA	941	1.5	0.8	1.1
19	14	34	AAGTTGAACA	942	0.7	2.4	1.8
19	30	18	CCAAATGCACA	943	1.6	0.6	0.9
21	18	27	AGGAAGCTAG	944	0.9	1.5	1.3
16	17	33	TGTACGCCATT	945	1.1	1.9	2.1
19	16	30	TCGACGTTGGC	946	0.8	1.9	1.6
9	32	23	GGGTGGGGGT	947	3.6	0.7	2.6
12	19	33	GTGGTTCCCTA	948	1.6	1.7	2.8
38	11	14	CGGTAGTCCA	949	0.3	1.3	0.4
14	23	26	GGATGGATGC	950	1.6	1.1	1.9

Table 5, cont.

35	13	14	ACTAGAAATT	951	0.4	1.1	0.4
7	48	4	ACCAATCTAC	952	6.9	0.1	0.6
14	25	20	GGAGATTCA	953	1.8	0.8	1.4
15	39	5	TTTTATTAC	954	2.6	0.1	0.3
34	8	16	CTAGAACGCG	955	0.2	2.0	0.5
10	16	31	AAGCTTACCGT	956	1.6	1.9	3.1
22	14	21	TGACTCTTG	957	0.6	1.5	1.0
24	15	17	ATTACGTTT	958	0.6	1.1	0.7
13	31	12	TCCCGTACAT	959	2.4	0.4	0.9
39	5	11	AGTGTGCGTA	960	0.1	2.2	0.3
37	11	7	CACAGAAAAA	961	0.3	0.6	0.2
14	17	24	GTTTTAAGT	962	1.2	1.4	1.7
15	34	5	ACTTAAATA	963	2.3	0.1	0.3
21	17	15	GTTTATCCAA	964	0.8	0.9	0.7
7	29	16	TACTTACTCA	965	4.1	0.6	2.3
12	18	22	TTGGTGGTA	966	1.5	1.2	1.8
22	11	18	CITCAAACCGA	967	0.5	1.6	0.8
18	11	22	GGAGAAGGTG	968	0.6	2.0	1.2
26	16	9	TTACTTCAC	969	0.6	0.6	0.3
13	13	24	ATGCTGAGGG	970	1.0	1.8	1.8
19	20	11	GGGGGTCA	971	1.1	0.6	0.6
0	49	0	CTTCTCTTT	972	#DIV/0!	0.0	#DIV/0!
22	12	15	TGGTGAAGTC	973	0.5	1.3	0.7
10	16	22	CACTTGAGTT	974	1.6	1.4	2.2
13	9	26	TGAGGGTGTAT	975	0.7	2.9	2.0
29	12	7	TGATACTAAG	976	0.4	0.6	0.2
18	6	22	TTGGAAAAGGA	977	0.3	3.7	1.2
15	15	15	TTCCCACTATT	978	1.0	1.0	1.0

Table 5, cont.

15	14	15	CACTTCAACT	979	0.9	1.1	1.0
8	7	29	CAGACCGCTT	980	0.9	4.1	3.6
23	10	11	GGTCAATGGC	981	0.4	1.1	0.5
19	20	5	TAAGAATTCT	982	1.1	0.3	0.3
9	16	19	TGAAAGCTGT	983	1.8	1.2	2.1
11	15	17	GCCAAGCAAT	984	1.4	1.1	1.5
21	11	11	TATGAAATGCA	985	0.5	1.0	0.5
22	13	8	TCAATTATGT	986	0.6	0.6	0.4
25	17	1	TTCCCTATAA	987	0.7	0.1	0.0
23	7	12	AACGATCTTC	988	0.3	1.7	0.5
22	6	14	ACGGCCAAGA	989	0.3	2.3	0.6
7	16	19	TCTAGTCGCC	990	2.3	1.2	2.7
8	22	11	ACTGAAAACG	991	2.8	0.5	1.4
21	5	15	ATCCATCGTG	992	0.2	3.0	0.7
9	8	24	ATCCGTTGA	993	0.9	3.0	2.7
16	6	19	TTGGCCCCAC	994	0.4	3.2	1.2
17	11	12	AAATTGATGC	995	0.6	1.1	0.7
17	19	4	ACTTATGTAA	996	1.1	0.2	0.2
4	19	17	CCCTCCAGGT	997	4.8	0.9	4.3
20	18	2	TCTATATGIG	998	0.9	0.1	0.1
13	12	15	TTGGGCTAGT	999	0.9	1.3	1.2
11	19	10	TTTGTTCGTA	1000	1.7	0.5	0.9
12	12	15	CAAATTTTG	1001	1.0	1.3	1.3
12	12	15	CCCTCTCTGT	1002	1.0	1.3	1.3
8	16	15	CGGACCTTGT	1003	2.0	0.9	1.9
12	17	10	GCAATTGGTC	1004	1.4	0.6	0.8
12	9	18	GGCAAAACGA	1005	0.8	2.0	1.5
10	16	12	GACTAGCGAA	1006	1.6	0.8	1.2

Table 5, cont.

15	12	11	TTGATCCGTG	1007	0.8	0.9	0.7
12	14	11	AACAAGTACT	1008	1.2	0.8	0.9
11	16	10	ATGGCTTCCTC	1009	1.5	0.6	0.9
9	22	6	CCCAAAACTT	1010	2.4	0.3	0.7
7	12	18	GCGCTTACA	1011	1.7	1.5	2.6
18	12	7	TATAGAATTAA	1012	0.7	0.6	0.4
11	15	11	TGATTTGTT	1013	1.4	0.7	1.0
14	14	8	AATTCAACAG	1014	1.0	0.6	0.6
13	7	16	AGAACGGTT	1015	0.5	2.3	1.2
25	3	8	TCTAAATTGT	1016	0.1	2.7	0.3
10	13	12	GCGAATTCGA	1017	1.3	0.9	1.2
5	12	18	GGAATCTACT	1018	2.4	1.5	3.6
14	16	5	TTAAAAAAA	1019	1.1	0.3	0.4
15	10	9	AAACCTTAC	1020	0.7	0.9	0.6
15	10	9	ACAATAAAA	1021	0.7	0.9	0.6
11	16	7	ATCGTTTAT	1022	1.5	0.4	0.6
7	13	14	CAAAAGACCG	1023	1.9	1.1	2.0
12	7	15	GGTTTTGAT	1024	0.6	2.1	1.3
10	16	8	TCGTCTGTOG	1025	1.6	0.5	0.8
15	9	10	TTAGGCCACTG	1026	0.6	1.1	0.7
6	9	19	TTTTGGAACA	1027	1.5	2.1	3.2
5	10	18	CAATCCATT	1028	2.0	1.8	3.6
9	11	13	CTGGTGCTAA	1029	1.2	1.2	1.4
4	11	18	GCTAGACAAA	1030	2.8	1.6	4.5
11	12	10	TTTGGGTCT	1031	1.1	0.8	0.9
14	7	11	ACAGGGCGC	1032	0.5	1.6	0.8
11	11	10	AACTGTCCAT	1033	1.0	0.9	0.9
8	16	8	CCAAGGTTAA	1034	2.0	0.5	1.0

Table 5, cont.

8	10	14	CGGTACAGAA	1035	1.3	1.4	1.8
6	12	14	GAAAGAGATT	1036	2.0	1.2	2.3
9	10	13	GGCCAATGGT	1037	1.1	1.3	1.4
12	9	11	GGTTTTGAA	1038	0.8	1.2	0.9
10	13	9	GTTTTTCCC	1039	1.3	0.7	0.9
3	14	15	TGGTTAACG	1040	4.7	1.1	5.0
9	14	8	AAGATGCAT	1041	1.6	0.6	0.9
18	10	3	CTAACGGCG	1042	0.6	0.3	0.2
11	12	8	GAACTTTATA	1043	1.1	0.7	0.7
7	7	17	GGGTGATGCT	1044	1.0	2.4	2.4
8	10	13	TTCCTGACCG	1045	1.3	1.3	1.6
7	14	9	ACCCCTGTCA	1046	2.0	0.6	1.3
9	18	3	ATATCATTGA	1047	2.0	0.2	0.3
8	6	16	CCACCAAAGG	1048	0.8	2.7	2.0
10	16	4	CCCCGTACAT	1049	1.6	0.3	0.4
16	5	9	CTGCGTTACA	1050	0.3	1.8	0.6
11	11	8	C TT ACT T T G A	1051	1.0	0.7	0.7
9	15	6	T AT T T C A T T	1052	1.7	0.4	0.7
7	15	8	T T C C C T C A C T	1053	2.1	0.5	1.1
8	12	9	A C T G C T G A C T	1054	1.5	0.8	1.1
9	8	12	A G A G T G C A T A	1055	0.9	1.5	1.3
2	15	12	A T C T T T G G C T	1056	7.5	0.8	6.0
6	5	18	C A C G G T T G C	1057	0.8	3.6	3.0
10	10	9	T C T T G A T T A	1058	1.0	0.9	0.9
12	10	7	T G T G T T T T G	1059	0.8	0.7	0.6
8	11	10	T T T A C G G C C T	1060	1.4	0.9	1.3
9	18	1	A T T A C C G T T T	1061	2.0	0.1	0.1
15	9	4	A T T G G T C A A T	1062	0.6	0.4	0.3

Table 5, cont.

9	12	7	CGAGCTTCG	1063	1.3	0.6	0.8
7	13	8	CGTAAATACT	1064	1.9	0.6	1.1
12	2	14	GCAAAAATAT	1065	0.2	7.0	1.2
5	10	13	GCTGGGGGG	1066	2.0	1.3	2.6
9	13	6	GGGGTGATAA	1067	1.4	0.5	0.7
7	12	9	GTGAAGATTG	1068	1.7	0.8	1.3
9	7	12	TAAGGAGTTT	1069	0.8	1.7	1.3
2	16	10	TTAATTCTGT	1070	8.0	0.6	5.0
5	19	3	AAAAGATCAT	1071	3.8	0.2	0.6
10	6	11	AACAAGTCGG	1072	0.6	1.8	1.1
9	13	5	AACTGAATCT	1073	1.4	0.4	0.6
9	9	9	AGACAAATCG	1074	1.0	1.0	1.0
4	11	12	AAGGAGTTGG	1075	2.8	1.1	3.0
13	7	7	CGAACGATGA	1076	0.5	1.0	0.5
3	18	6	GCAACAACTT	1077	6.0	0.3	2.0
18	0	9	GGATATAATT	1078	0.0	#DIV/0!	0.5
11	10	6	GGTCCAAITA	1079	0.9	0.6	0.5
10	6	11	GGTCCATTOGG	1080	0.6	1.8	1.1
14	3	10	GGTGCCTGTA	1081	0.2	3.3	0.7
8	7	12	GTTGCTCTC	1082	0.9	1.7	1.5
14	6	6	ATATTCCTC	1083	0.4	1.0	0.4
6	8	12	ATGTTTTGA	1084	1.3	1.5	2.0
10	0	16	CCTGGTCGTC	1085	0.0	#DIV/0!	1.6
6	6	14	GAAGTATGTT	1086	1.0	2.3	2.3
8	11	7	GAGGATAACG	1087	1.4	0.6	0.9
1	15	10	GCAGTAAGG	1088	15.0	0.7	10.0
12	7	7	GCCTTGTGCT	1089	0.6	1.0	0.6
7	9	10	GGGACCAAA	1090	1.3	1.1	1.4

Table 5, cont.

6	8	12	GTACACCACA	1091	1.3	1.5	2.0
9	7	9	AAGGAGTCTC	1092	0.8	1.3	1.0
6	7	12	AGGACGTTGA	1093	1.2	1.7	2.0
5	9	11	CAGAAAATGG	1094	1.8	1.2	2.2
7	9	9	CCATTCAATT	1095	1.3	1.0	1.3
12	9	4	CGGTCCTATA	1096	0.8	0.4	0.3
7	6	12	CTTCTTCAG	1097	0.9	2.0	1.7
12	3	10	GACGGACTTGG	1098	0.3	3.3	0.8
10	7	8	GCTGCTACTT	1099	0.7	1.1	0.8
8	6	11	GGCAAATTAC	1100	0.8	1.8	1.4
10	8	7	GTTCATAAT	1101	0.8	0.9	0.7
5	9	11	TGGTGTGTC	1102	1.8	1.2	2.2
5	10	10	TTCTTCGCCCT	1103	2.0	1.0	2.0
13	8	3	AGAAAAAATC	1104	0.6	0.4	0.2
8	7	9	AGCGGGTTCT	1105	0.9	1.3	1.1
7	11	6	CGTTCATCCGG	1106	1.6	0.5	0.9
14	5	5	CTTAAATCT	1107	0.4	1.0	0.4
7	8	9	GAGTTGCTGA	1108	1.1	1.1	1.3
2	20	2	GGGCGGGCT	1109	10.0	0.1	1.0
7	5	12	GGTAAGAAAAA	1110	0.7	2.4	1.7
11	6	7	GGTACTAGAA	1111	0.5	1.2	0.6
6	5	13	GTCCAAGAC	1112	0.8	2.6	2.2
7	9	8	TGACATTCTT	1113	1.3	0.9	1.1
4	3	17	TGGGCCTCTT	1114	0.8	5.7	4.3
10	9	5	TTGACAAATT	1115	0.9	0.6	0.5
10	3	10	CAGGAAGCTG	1116	0.3	3.3	1.0
3	15	5	CCGAACGGTT	1117	5.0	0.3	1.7
5	16	2	CCGACAAACGA	1118	3.2	0.1	0.4

Table 5, cont.

9	5	9	CGCCGGTTCC	1119	0.6	1.8		1.0
9	6	8	GAAGTCGGTG	1120	0.7	1.3	0.9	
2	13	8	GCATTCAAAC	1121	6.5	0.6	4.0	
8	5	10	GCTAAATT	1122	0.6	2.0	1.3	
10	4	9	GCTTGTATTG	1123	0.4	2.3	0.9	
4	12	7	GTGCCAGTG	1124	3.0	0.6	1.8	
4	16	3	TAGACATCTA	1125	4.0	0.2	0.8	
7	2	14	TTCACCCCAA	1126	0.3	7.0	2.0	
10	9	4	TTCCTATGA	1127	0.9	0.4	0.4	
6	10	6	AACCGCTAAG	1128	1.7	0.6	1.0	
3	10	9	AATGGGGCTC	1129	3.3	0.9	3.0	
7	8	7	AGACTCCATT	1130	1.1	0.9	1.0	
10	8	4	ATCTTAGT	1131	0.8	0.5	0.4	
5	8	9	ATGACCAGCC	1132	1.6	1.1	1.8	
5	4	13	CAACCCACTG	1133	0.8	3.3	2.6	
8	5	9	CACGCCGCTC	1134	0.6	1.8	1.1	
9	4	9	CCGAGCCAAA	1135	0.4	2.3	1.0	
5	9	8	CCTCTACATT	1136	1.8	0.9	1.6	
7	6	9	CTCTAACCG	1137	0.9	1.5	1.3	
9	6	7	CTGACCAAT	1138	0.7	1.2	0.8	
7	6	9	CTTCTTTA	1139	0.9	1.5	1.3	
6	8	8	GAATCTGGA	1140	1.3	1.0	1.3	
6	11	5	GATGCCGAAA	1141	1.8	0.5	0.8	
7	5	10	TAAAATGATT	1142	0.7	2.0	1.4	
8	14	0	TACTATATA	1143	1.8	0.0	0.0	
9	9	4	TGATTAAGAA	1144	1.0	0.4	0.4	
9	3	10	TGCCCTGGCC	1145	0.3	3.3	1.1	
8	8	6	TTGCCGAATC	1146	1.0	0.8	0.8	

Table 5, cont.

8	5	8	ACAATGCTAT	1147	0.6	1.6		1.0
6	5	10	AGCAAAAGTG	1148	0.8	2.0		1.7
6	14	1	ATATTATTTG	1149	2.3	0.1	0.2	
8	13	0	ATCTTTTAC	1150	1.6	0.0	0.0	
4	9	8	CCATTTTGG	1151	2.3	0.9	2.0	
5	12	4	CTATATTCGA	1152	2.4	0.3	0.8	
15	4	2	GACATTTGT	1153	0.3	0.5	0.1	
5	9	7	GGAAAAGCT	1154	1.8	0.8	1.4	
7	7	7	GTCCCCAAAAA	1155	1.0	1.0	1.0	
6	4	11	GTTTACTCGGG	1156	0.7	2.8	1.8	
7	8	6	TAACGGAGTAC	1157	1.1	0.8	0.9	
15	4	2	TAATCATTAT	1158	0.3	0.5	0.1	
9	10	2	TCCCTATAAG	1159	1.1	0.2	0.2	
10	7	4	TGTACCCCCA	1160	0.7	0.6	0.4	
5	14	2	TTAACGATAA	1161	2.8	0.1	0.4	
8	5	7	AAGGGTCAG	1162	0.6	1.4	0.9	
5	9	6	ACAAAGTTAT	1163	1.8	0.7	1.2	
11	3	6	ATTAAGCGTA	1164	0.3	2.0	0.5	
4	9	7	CAAGAAGCTA	1165	2.3	0.8	1.8	
7	9	4	CATAAGCTAA	1166	1.3	0.4	0.6	
2	7	11	CCAAGGCCAT	1167	3.5	1.6	5.5	
4	9	7	CCITCAAGAA	1168	2.3	0.8	1.8	
10	4	6	GAAGAACGTG	1169	0.4	1.5	0.6	
7	4	9	GTGGCCTCAG	1170	0.6	2.3	1.3	
8	6	6	GTTCCTTC	1171	0.8	1.0	0.8	
6	6	8	TAATGGAAC	1172	1.0	1.3	1.3	
9	7	4	TGTGTATGAA	1173	0.8	0.6	0.4	
4	8	8	TTTCTGGTGA	1174	2.0	1.0	2.0	

Table 5, cont.

			AACCGATACT	1175	4.3	0.2	0.2	1.0
3	13	3	ACCACTAGAG	1176	0.4	1.3	0.5	0.5
10	4	5	AGAAAGGATA	1177	10.0	0.8	8.0	8.0
1	10	8	AGAGCCATAA	1178	0.4	2.7	1.0	1.0
8	3	8	ATGATGGCAT	1179	1.7	2.2	3.7	3.7
3	5	11	ATTGAATCAA	1180	0.4	1.5	0.7	0.7
9	4	6	CAGCCTTAA	1181	0.3	0.8	0.3	0.3
12	4	3	CCAAGCTGC	1182	0.2	4.0	0.9	0.9
9	2	8	CTCCCTCAAT	1183	1.7	2.2	3.7	3.7
3	5	11	CTGACTCCTT	1184	2.6	0.5	1.3	1.3
4	10	5	GAAAAAAACT	1185	0.3	2.0	0.6	0.6
10	3	6	GAGGGATCCA	1186	0.1	10.0	1.3	1.3
8	1	10	GCGCCAATAG	1187	7.5	0.1	1.0	1.0
2	15	2	GCTTCTGGCA	1188	1.5	1.5	1.2	1.2
4	6	9	GGTTGATGCC	1189	1.0	2.8	2.8	2.8
4	4	11	GCTTATT	1190	0.7	0.7	0.4	0.4
9	6	4	GTGGGATGGA	1191	0.4	1.5	0.7	0.7
9	4	6	GTTTACTGTT	1192	4.3	0.2	1.0	1.0
3	13	3	TATAATAATT	1193	0.4	0.2	0.1	0.1
13	5	1	TCCGAATATG	1194	1.3	2.0	2.5	2.5
4	5	10	TCCTTAGCGC	1195	2.0	0.9	1.8	1.8
4	8	7	TCCCTGTCTA	1196	1.0	0.7	0.7	0.7
7	7	5	TCGTTAAAT	1197	0.9	1.0	0.9	0.9
7	6	6	TGTTTGTTAT	1198	3.3	0.2	0.5	0.5
4	13	2	TTAGTCAAA	1199	0.3	0.8	0.3	0.3
12	4	3	TTGGGGCAA	1200	0.4	1.0	0.4	0.4
11	4	4	AACTGATGA	1201	1.0	1.0	1.0	1.0
6	6	6	ACAAAATTTC	1202	1.0	2.5	2.5	2.5
4	4	10						

Table 5, cont.

10	6	2	ACGAAGGAAT	1203	0.6	0.3	0.2
6	6	6	ACGAGAGATT	1204	1.0	1.0	1.0
7	6	5	ATGACTGAAAC	1205	0.9	0.8	0.7
6	8	4	ATGGAACAT	1206	1.3	0.5	0.7
7	4	7	ATTTGAAGA	1207	0.6	1.8	1.0
3	14	1	CAAAGGATCT	1208	4.7	0.1	0.3
3	7	8	CCTGCCCTAT	1209	2.3	1.1	2.7
9	6	3	CGACTGGCC	1210	0.7	0.5	0.3
6	5	7	CTAACIGGCT	1211	0.8	1.4	1.2
9	5	4	CTGTTTATGG	1212	0.6	0.8	0.4
2	5	11	GAAAACACTT	1213	2.5	2.2	5.5
5	5	8	GAACAGACAA	1214	1.0	1.6	1.6
5	6	7	GAATAAGCTG	1215	1.2	1.2	1.4
2	8	8	GCAGAATGCT	1216	4.0	1.0	4.0
5	3	10	GGGTAAGATA	1217	0.6	3.3	2.0
6	3	9	GGCTCCCTAT	1218	0.5	3.0	1.5
2	3	13	GGGAGTATGG	1219	1.5	4.3	6.5
8	3	7	GTTCCTGTGT	1220	0.4	2.3	0.9
5	12	1	TACACAAGTA	1221	2.4	0.1	0.2
10	7	1	TATATTTTTT	1222	0.7	0.1	0.1
7	3	8	TA TGGCGTAC	1223	0.4	2.7	1.1
2	9	7	TCTATTGTCA	1224	4.5	0.8	3.5
6	6	5	AAAAAGCTAG	1225	1.0	0.8	0.8
7	2	8	AAAACGCCAT	1226	0.3	4.0	1.1
5	7	5	AAGTCAATAG	1227	1.4	0.7	1.0
4	6	7	AA TCGTCA TA	1228	1.5	1.2	1.8
6	4	7	ACAAAAAATTC	1229	0.7	1.8	1.2
7	6	4	ACCGCCACCC	1230	0.9	0.7	0.6

Table 5, cont.

6	6	5	ACTTGGAGCC	1231	1.0	0.8	0.8
7	4	6	AGATGGATC	1232	0.6	1.5	0.9
7	7	3	ATCACGGCTCT	1233	1.0	0.4	0.4
5	8	4	ATCCAAGGCTG	1234	1.6	0.5	0.8
10	4	3	ATCGGTCCAG	1235	0.4	0.8	0.3
5	7	5	ATGACAAVGG	1236	1.4	0.7	1.0
9	2	6	GAAAGTCGGAA	1237	0.2	3.0	0.7
1	10	6	GAGGTGCTGT	1238	10.0	0.6	6.0
4	6	7	GCCTTCGGGG	1239	1.5	1.2	1.8
4	1	12	GGATCGGTTT	1240	0.3	12.0	3.0
8	1	8	GGATGCTGTG	1241	0.1	8.0	1.0
7	7	3	GTTTTGGCG	1242	1.0	0.4	0.4
4	4	9	GTTTCAAGAG	1243	1.0	2.3	2.3
2	12	3	TAGCGGAGT	1244	6.0	0.3	1.5
7	6	4	TACATTATAAC	1245	0.9	0.7	0.6
7	7	3	TCCAGTGTATG	1246	1.0	0.4	0.4
3	6	8	TCTACCGTCA	1247	2.0	1.3	2.7
2	8	7	TGGATCTCAA	1248	4.0	0.9	3.5
3	9	5	TTTATTAAATC	1249	3.0	0.6	1.7
7	8	2	TTTTAAGATA	1250	1.1	0.3	0.3
8	6	2	AAAAAACATAT	1251	0.8	0.3	0.3
8	1	7	AAAGCTAACAA	1252	0.1	7.0	0.9
5	6	5	AAGGAATTGA	1253	1.2	0.8	1.0
2	3	11	ACAGTGCAG	1254	1.5	3.7	5.5
8	8	0	ACATCTCAA	1255	1.0	0.0	0.0
10	1	5	ACATTTTA	1256	0.1	5.0	0.5
5	7	4	ACCCATCGGT	1257	1.4	0.6	0.8
3	7	6	ACGTAGGTGA	1258	2.3	0.9	2.0

Table 5, cont.

3	12	1	ACTTTAAA	1259	4.0	0.1	0.3
7	3	6	ATCGTGATAA	1260	0.4	2.0	0.9
8	4	4	CAAAGACTG	1261	0.5	1.0	0.5
7	4	5	CAAAGAGAAAG	1262	0.6	1.3	0.7
6	7	3	CACTTTAATT	1263	1.2	0.4	0.5
8	3	5	CCACCAATTAA	1264	0.4	1.7	0.6
0	14	2	CCATACAGGT	1265	#DIV/0!	0.1	#DIV/0!
10	4	2	CCTGGCGTCA	1266	0.4	0.5	0.2
4	5	7	CTGGCTCTAA	1267	1.3	1.4	1.8
9	5	2	CTTGGCATT	1268	0.6	0.4	0.2
6	4	6	GAACACAAGA	1269	0.7	1.5	1.0
7	6	3	GATAAGATTA	1270	0.9	0.5	0.4
4	5	7	GATACCTCTCC	1271	1.3	1.4	1.8
3	7	6	GCTGCCTATG	1272	2.3	0.9	2.0
7	6	3	GCCTGGCTA	1273	0.9	0.5	0.4
9	2	5	GTCATATGAA	1274	0.2	2.5	0.6
5	5	6	GTCTCCGAAG	1275	1.0	1.2	1.2
3	11	2	TAAGCAGCGT	1276	3.7	0.2	0.7
8	5	3	TATAAGAACT	1277	0.6	0.6	0.4
11	4	1	TCATTACATT	1278	0.4	0.3	0.1
8	5	3	TCCTCCAGAA	1279	0.6	0.6	0.4
7	4	5	TGATTATAAA	1280	0.6	1.3	0.7
7	6	3	TGTATGTGAA	1281	0.9	0.5	0.4
4	5	7	TTGAGTGAGC	1282	1.3	1.4	1.8
12	1	3	TTTTTATTTCC	1283	0.1	3.0	0.3
6	3	6	AGCTTTATTGA	1284	0.5	2.0	1.0
7	7	1	ATAAAAAAA	1285	1.0	0.1	0.1
4	9	2	ATAACAAACAA	1286	2.3	0.2	0.5

Table 5, cont.

7	8	0	ATATCAAAAA	1287	1.1	0.0	0.0
5	7	3	ATGCAGATT	1288	1.4	0.4	0.6
4	8	3	ATGCTGTTAT	1289	2.0	0.4	0.8
6	3	6	ATTIGAGTTA	1290	0.5	2.0	1.0
4	4	7	CAACCAGTT	1291	1.0	1.8	1.8
4	5	6	CCAACTAGAG	1292	1.3	1.2	1.5
9	2	4	CGAACGTAAA	1293	0.2	2.0	0.4
8	4	3	CITTCATAT	1294	0.5	0.8	0.4
6	3	6	CTTGGCTGA	1295	0.5	2.0	1.0
6	5	4	GAAATGGAG	1296	0.8	0.8	0.7
4	4	7	GAACCCAGCTT	1297	1.0	1.8	1.8
6	3	6	GAAGTGCACAA	1298	0.5	2.0	1.0
5	5	5	GAATGGGATA	1299	1.0	1.0	1.0
1	5	9	GAGACTGCTA	1300	5.0	1.8	9.0
5	3	7	GATAACAAAA	1301	0.6	2.3	1.4
3	6	6	GCTCTAGCGC	1302	2.0	1.0	2.0
3	6	6	GGATTATACA	1303	2.0	1.0	2.0
4	3	8	GGTGATGAGG	1304	0.8	2.7	2.0
9	1	5	GTCCGCCAAA	1305	0.1	5.0	0.6
3	6	6	GTGGTACAGA	1306	2.0	1.0	2.0
5	7	3	TAAGAAACAA	1307	1.4	0.4	0.6
5	5	5	TACACCGCAT	1308	1.0	1.0	1.0
4	5	6	TGGGGCAACT	1309	1.3	1.2	1.5
4	7	4	TGCTCTGTGG	1310	1.8	0.6	1.0
3	5	7	TGGGATAGAC	1311	1.7	1.4	2.3
9	1	5	TGGTATTAGA	1312	0.1	5.0	0.6
2	8	5	TTGCAATAAT	1313	4.0	0.6	2.5
3	11	1	TTGCTGTACG	1314	3.7	0.1	0.3

Table 5, cont.

11	3	1	T <small>TTTTACGTT</small>	1315	0.3	0.3	0.1
11	2	2	T <small>TTTTCGGCTA</small>	1316	0.2	1.0	0.2
6	5	3	A <small>AACGAATT</small>	1317	0.8	0.6	0.5
5	6	3	A <small>AGAAACTAA</small>	1318	1.2	0.5	0.6
5	5	4	A <small>ACTTACGGG</small>	1319	1.0	0.8	0.8
5	5	4	A <small>CACCTGCTG</small>	1320	1.0	0.8	0.8
2	3	9	A <small>CTGTGCTGG</small>	1321	1.5	3.0	4.5
7	4	3	A <small>GAAAACAT</small>	1322	0.6	0.8	0.4
7	2	5	A <small>GTTACATTG</small>	1323	0.3	2.5	0.7
13	0	1	A <small>GTTCAGAGT</small>	1324	0.0	#DIV/0!	0.1
4	1	9	A <small>TCTTGATC</small>	1325	0.3	9.0	2.3
1	4	9	C <small>ACTCCAGAA</small>	1326	4.0	2.3	9.0
2	9	3	C <small>AATTCTCTT</small>	1327	4.5	0.3	1.5
5	6	3	C <small>ATTGGTGA</small>	1328	1.2	0.5	0.6
3	6	5	C <small>CAAATCAAA</small>	1329	2.0	0.8	1.7
5	4	5	C <small>ACCCACTTC</small>	1330	0.8	1.3	1.0
3	6	5	C <small>CTTAGTAGT</small>	1331	2.0	0.8	1.7
4	3	7	C <small>GAGGGCCC</small>	1332	0.8	2.3	1.8
2	11	1	C <small>GCAAAATT</small>	1333	5.5	0.1	0.5
5	4	5	C <small>TTCGGAAC</small>	1334	0.8	1.3	1.0
5	7	2	G <small>AAGTTTC</small>	1335	1.4	0.3	0.4
5	4	5	G <small>AATTGTCAT</small>	1336	0.8	1.3	1.0
3	5	6	G <small>CAAGCTCGA</small>	1337	1.7	1.2	2.0
4	5	.5	G <small>CGATGTTA</small>	1338	1.3	1.0	1.3
4	5	5	G <small>GGTGGATA</small>	1339	1.3	1.0	1.3
6	5	3	G <small>GGTCTTC</small>	1340	0.8	0.6	0.5
7	5	2	G <small>TCGGTTGAT</small>	1341	0.7	0.4	0.3
4	3	7	G <small>AGGTGATG</small>	1342	0.8	2.3	1.8

Table 5, cont.

1	5	8	GTCATTAACG	1343	5.0	1.6	8.0
8	4	2	TAAAAAAA	1344	0.5	0.5	0.3
3	8	3	TATACTCG	1345	2.7	0.4	1.0
4	5	5	TTAATTGCT	1346	1.3	1.0	1.3
9	4	1	TTACTAGCCA	1347	0.4	0.3	0.1
4	4	6	TTAGTGAAGT	1348	1.0	1.5	1.5
6	3	5	TTGCACGGTA	1349	0.5	1.7	0.8
2	2	10	TTGGGTGGCG	1350	1.0	5.0	5.0
4	6	4	TTTGTTCAC	1351	1.5	0.7	1.0
5	3	5	AACAAAGTTGG	1352	0.6	1.7	1.0
6	1	6	AACGCTTGGG	1353	0.2	6.0	1.0
3	4	6	AAGAAAGACCA	1354	1.3	1.5	2.0
5	4	4	AAGGGGTACT	1355	0.8	1.0	0.8
5	8	0	AATGAATACT	1356	1.6	0.0	0.0
2	8	3	ACGGTCTTAC	1357	4.0	0.4	1.5
8	2	3	AGGCAAAATT	1358	0.3	1.5	0.4
3	2	8	AGGGAAGTAA	1359	0.7	4.0	2.7
6	6	1	ATCTACGGCTA	1360	1.0	0.2	0.2
4	3	6	ATTAACCTCG	1361	0.8	2.0	1.5
3	2	8	CATCAGCAAC	1362	0.7	4.0	2.7
2	5	6	CCACCTCAAT	1363	2.5	1.2	3.0
5	2	6	CTTTCAAAAT	1364	0.4	3.0	1.2
5	2	6	CTAAAGACGA	1365	0.4	3.0	1.2
11	2	0	CTACGGACGA	1366	0.2	0.0	0.0
3	6	4	GAAAACCTCTC	1367	2.0	0.7	1.3
6	4	3	GAAATAACGGC	1368	0.7	0.8	0.5
3	3	7	GAACGGAGTAA	1369	1.0	2.3	2.3
2	1	10	GAAGAACTGG	1370	0.5	10.0	5.0

Table 5, cont.

4	4	5	GAAGAGAATG	1371	1.0	1.3	1.3
5	6	2	GAGACACCA	1372	1.2	0.3	0.4
9	3	1	GCAATGTAAA	1373	0.3	0.3	0.1
6	4	3	GCACAAGCTC	1374	0.7	0.8	0.5
3	3	7	GGAGAAATCG	1375	1.0	2.3	2.3
4	2	7	GGCCTCAAAG	1376	0.5	3.5	1.8
2	6	5	GGCGAGATGC	1377	3.0	0.8	2.5
2	7	4	GGGCTCTCGT	1378	3.5	0.6	2.0
8	2	3	GGTTTCCCAAG	1379	0.3	1.5	0.4
5	4	4	GTTCCTACAGA	1380	0.8	1.0	0.8
4	6	3	GTTCGCCAGAA	1381	1.5	0.5	0.8
5	3	5	GTTGTTGGAT	1382	0.6	1.7	1.0
0	9	4	TCTTCAGTAA	1383	#DIV/0!	0.4	#DIV/0!
6	7	0	TGAACAAATA	1384	1.2	0.0	0.0
4	4	5	TGCTTAAGAAC	1385	1.0	1.3	1.3
1	0	12	TGGCAAAACT	1386	0.0	#DIV/0!	12.0
3	6	4	TTTCAAGATG	1387	2.0	0.7	1.3
3	3	7	TTTCCGGGGA	1388	1.0	2.3	2.3
5	6	2	TTTTTCTTTT	1389	1.2	0.3	0.4
5	1	6	AAAATTCACA	1390	0.2	6.0	1.2
2	7	3	AAACAATTAA	1391	3.5	0.4	1.5
6	3	3	AAATAGGGTC	1392	0.5	1.0	0.5
5	3	4	AAATGGGACT	1393	0.6	1.3	0.8
2	7	3	AACGGCTTTTC	1394	3.5	0.4	1.5
8	1	3	AAGATTAGAT	1395	0.1	3.0	0.4
3	6	3	AAGCATAAAA	1396	2.0	0.5	1.0
4	4	4	AGGGATAAAA	1397	1.0	1.0	1.0
6	4	2	AGAAAAGTAT	1398	0.7	0.5	0.3

Table 5, cont.

4	7	1	AGCCTATTTA	1399	1.8	0.1	0.3
1	3	8	AGCTCTCTTA	1400	3.0	2.7	8.0
2	2	8	AGGGACTGTT	1401	1.0	4.0	4.0
8	3	1	ATAAAATTTT	1402	0.4	0.3	0.1
5	3	4	ATGGTTACTA	1403	0.6	1.3	0.8
5	2	5	CAAGTTTGT	1404	0.4	2.5	1.0
3	5	4	CAATGAACCG	1405	1.7	0.8	1.3
1	5	6	CATACACTGA	1406	5.0	1.2	6.0
3	6	3	CATATGGCCA	1407	2.0	0.5	1.0
3	6	3	CATCATTGAT	1408	2.0	0.5	1.0
2	9	1	CGGGATATCC	1409	4.5	0.1	0.5
3	3	6	CTGCACAAAAA	1410	1.0	2.0	2.0
3	4	5	CTGGCAGCTGA	1411	1.3	1.3	1.7
4	2	6	CTGGCAAAA	1412	0.5	3.0	1.5
1	8	3	CTTGTGGTT	1413	8.0	0.4	3.0
6	3	3	GAAATCCAAA	1414	0.5	1.0	0.5
4	5	3	GAAGCCCTCT	1415	1.3	0.6	0.8
3	9	0	GAATAAAAG	1416	3.0	0.0	0.0
8	2	2	GACGACAAAC	1417	0.3	1.0	0.3
3	4	5	GAGGATAGAG	1418	1.3	1.3	1.7
3	0	9	GATGTCGACG	1419	0.0	#DIV/0!	3.0
6	4	2	GATGTGGTGA	1420	0.7	0.5	0.3
4	3	5	GATTCATCA	1421	0.8	1.7	1.3
3	4	5	GCATCTTGT	1422	1.3	1.3	1.7
4	3	5	GCCTGAACAA	1423	0.8	1.7	1.3
5	3	4	GGAGAGATG	1424	0.6	1.3	0.8
9	0	3	GGCATCCGCC	1425	0.0	#DIV/0!	0.3
0	9	3	GTTCGAGACA	1426	#DIV/0!	0.3	#DIV/0!

Table 5, cont.

Table 5, cont.

2	1	8	CACTCTGGAC	1455	0.5	8.0	4.0
4	2	5	CAGCTAAAGA	1456	0.5	2.5	1.3
1	1	9	CATTGGCAAG	1457	1.0	9.0	9.0
8	2	1	CCCTAAATTAA	1458	0.3	0.5	0.1
4	5	2	CCCTATTAAAG	1459	1.3	0.4	0.5
1	5	5	CGGCTCCAGT	1460	5.0	1.0	5.0
3	0	8	CGGTGTAAGA	1461	0.0	#DIV/0!	2.7
1	4	6	CTAAGAAGGT	1462	4.0	1.5	6.0
1	2	8	CTGAACAAAG	1463	2.0	4.0	8.0
3	5	3	CTGATGGTAG	1464	1.7	0.6	1.0
7	1	3	CTGCTCAATT	1465	0.1	3.0	0.4
4	5	2	CTGGAGGGGA	1466	1.3	0.4	0.5
3	3	5	CTGGCAAAGT	1467	1.0	1.7	1.7
7	2	2	CTTGATCTCA	1468	0.3	1.0	0.3
6	4	1	GAAAATTGCT	1469	0.7	0.3	0.2
3	4	4	GACAATTCAA	1470	1.3	1.0	1.3
0	4	7	GAGGAAAGCT	1471	#DIV/0!	1.8	#DIV/0!
5	6	0	GATTAGATTA	1472	1.2	0.0	0.0
7	3	1	GATTTAAACT	1473	0.4	0.3	0.1
5	1	5	GCAAGAAGGA	1474	0.2	5.0	1.0
1	3	7	GCATCGTCAT	1475	3.0	2.3	7.0
3	6	2	GCTACTTGTTC	1476	2.0	0.3	0.7
1	4	6	GCTGAGAAC	1477	4.0	1.5	6.0
1	4	6	GGCAATAGAT	1478	4.0	1.5	6.0
1	0	10	GGGAAAGCTA	1479	0.0	#DIV/0!	10.0
4	5	2	GGTGAACCGT	1480	1.3	0.4	0.5
4	1	6	GGTCCGGTT	1481	0.3	6.0	1.5
5	2	4	GTGACACGGCT	1482	0.4	2.0	0.8

Table 5, cont.

Table 5, cont.

					#DIV/0!	2.3	#DIV/0!
0	3	7	'AGACAGTTAG	1511	#DIV/0!		
4	5	1	AGGAACCTCGC	1512	1.3	0.2	0.3
2	5	3	AGGCCAAAAC	1513	2.5	0.6	1.5
1	6	3	AGTAGATTCA	1514	6.0	0.5	3.0
6	0	4	ATGAAGAAC	1515	0.0	#DIV/0!	0.7
7	3	0	ATTTTAGTTT	1516	0.4	0.0	0.0
1	6	3	CAATGGCCCA	1517	6.0	0.5	3.0
5	2	3	CAGCAGGTTT	1518	0.4	1.5	0.6
4	4	2	CAGGAGCTAA	1519	1.0	0.5	0.5
3	4	3	CAGTTGCITGC	1520	1.3	0.8	1.0
3	3	4	CATATGTATG	1521	1.0	1.3	1.3
3	6	1	CCAGGGTCTG	1522	2.0	0.2	0.3
4	1	5	CCCCATTTGC	1523	0.3	5.0	1.3
2	1	7	CCGTTACCTC	1524	0.5	7.0	3.5
2	4	4	CTGATCAAAGG	1525	2.0	1.0	2.0
3	6	1	CTGGAAATTAT	1526	2.0	0.2	0.3
5	3	2	GAAAAAAA	1527	0.6	0.7	0.4
5	4	1	GACGGGGCCG	1528	0.8	0.3	0.2
3	2	5	GAGAACATTA	1529	0.7	2.5	1.7
4	5	1	GAGCAATCCA	1530	1.3	0.2	0.3
2	4	4	GATCACCGAC	1531	2.0	1.0	2.0
2	4	4	GCAACAAAAG	1532	2.0	1.0	2.0
1	4	5	GCAATGGCTG	1533	4.0	1.3	5.0
2	3	.5	GCAGGGTGCIG	1534	1.5	1.7	2.5
6	2	2	GCAGTAGAAG	1535	0.3	1.0	0.3
3	6	1	GC GAAAGAGGC	1536	2.0	0.2	0.3
0	5	5	GGCCCTCCAA	1537	#DIV/0!	1.0	#DIV/0!
4	5	1	GGGCTGAAGA	1538	1.3	0.2	0.3

Table 5, cont.

6	2	2	2	GCGTGAACG	1539	0.3	1.0	0.3
1	6	3	3	GCTCCGTG	1540	6.0	0.5	3.0
2	4	4	4	GGATAAATAA	1541	2.0	1.0	2.0
4	2	4	4	GGATTAACC	1542	0.5	2.0	1.0
0	9	1	1	GGCAACACT	1543	#DIV/0!	0.1	#DIV/0!
3	4	3	3	GGCCACTAGT	1544	1.3	0.8	1.0
4	4	2	2	GGCCGATAAA	1545	1.0	0.5	0.5
3	0	7	7	GGGTGTTAAC	1546	0.0	#DIV/0!	2.3
4	4	2	2	GGTGGATTCT	1547	1.0	0.5	0.5
3	3	4	4	GTAAATTCA	1548	1.0	1.3	1.3
4	2	4	4	GTGTGGGACG	1549	0.5	2.0	1.0
2	2	6	6	GTGGGTGAAT	1550	1.0	3.0	3.0
4	1	5	5	GTGGGGTTTG	1551	0.3	5.0	1.3
1	6	3	3	TACATAAAGT	1552	6.0	0.5	3.0
4	4	2	2	TACCCGTAAG	1553	1.0	0.5	0.5
7	1	2	2	TATGAAGGAC	1554	0.1	2.0	0.3
9	1	0	0	TCATTCAAGT	1555	0.1	0.0	0.0
5	4	1	1	TCCCCGACAT	1556	0.8	0.3	0.2
4	3	3	3	TCTCTGACAG	1557	0.8	1.0	0.8
3	3	4	4	TCTGCGCTCT	1558	1.0	1.3	1.3
1	4	5	5	TGATAGGCCAT	1559	4.0	1.3	5.0
1	0	9	9	TGATTGTGG	1560	0.0	#DIV/0!	9.0
1	1	8	8	TGCCAGACTC	1561	1.0	8.0	8.0
3	5	2	2	TGCTGAATTG	1562	1.7	0.4	0.7
2	2	6	6	TGGCTGAGGA	1563	1.0	3.0	3.0
3	3	4	4	TGGTGTCTA	1564	1.0	1.3	1.3
3	4	3	3	TTACGTTTAG	1565	1.3	0.8	1.0
2	5	3	3	TTATCAGAGG	1566	2.5	0.6	1.5

Table 5, cont.

					1567	2.0	1.0	2.0
					1568	2.0	0.2	0.3
					1569	3.0	2.0	6.0
2	4	4	TTCGTTTACT		1570	0.3	0.5	0.1
3	6	1	TTCTGTGTGA		1571	7.0	0.3	2.0
1	3	6	TCTTACCCA		1572	1.7	0.4	0.7
7	2	1	TGATTGGGA		1573	1.3	0.8	1.0
1	7	2	TGTGAGTAC		1574	#DIV/0!	1.0	#DIV/0!
3	5	2	TTTCCGTCTC		1575	1.0	0.5	0.5
3	4	3	TTTCGGGCAC		1576	1.0	1.0	1.0
0	5	5	TTCTAAAAA		1577	0.5	6.0	3.0
4	4	2	TTTGAACCA		1578	5.0	0.6	3.0
3	3	3	AAAATGTTAGG		1579	0.3	0.0	0.0
2	1	6	AAACAAGTTC		1580	1.5	1.3	2.0
1	5	3	AAAGAAGAAG		1581	0.3	5.0	1.7
7	2	0	AAATTAATGT		1582	1.0	2.5	2.5
2	3	4	AAATTGATTA		1583	1.0	1.0	1.0
3	1	5	AACGTTGGTG		1584	1.0	1.0	1.0
2	2	6	AAGAAAAGGC		1585	6.0	0.3	2.0
3	3	3	AAGACGAAGA		1586	0.8	0.7	0.5
3	3	3	AAGGGTTATG		1587	0.7	2.0	1.3
1	6	2	AATCGACTTT		1588	1.5	1.3	2.0
4	3	2	AATGAAAGTC		1589	0.7	2.0	1.3
3	2	4	ACACGGGCC		1590	1.3	0.5	0.7
2	3	4	ACATTCTGG		1591	3.0	0.2	0.5
3	2	4	ACCCACGTGT		1592	0.5	1.5	0.8
3	4	2	ACTCCACTAC		1593	1.0	1.0	1.0
2	6	1	ACTGTTACA		1594	2.5	0.4	1.0
4	2	3	ACTGTTACCT					
3	3	3	AGACAACGT					
2	5	2	AGACTTGTCT					

Table 5, cont.

1	6	2	AGGAGTCATC	1595	6.0	0.3	2.0
3	4	2	ATATTGGTC	1596	1.3	0.5	0.7
3	3	3	AICTGTATT	1597	1.0	1.0	1.0
1	5	3	ATGCTGCCCA	1598	5.0	0.6	3.0
3	1	5	ATTTCAGATT	1599	0.3	5.0	1.7
3	3	3	ATTTTGTGT	1600	1.0	1.0	1.0
1	7	1	CATATAATT	1601	7.0	0.1	1.0
2	5	2	CCTTGAAGA	1602	2.5	0.4	1.0
3	3	3	CGAATAAAA	1603	1.0	1.0	1.0
1	2	6	CGAGGAGGT	1604	2.0	3.0	6.0
3	3	3	CGCATATGCT	1605	1.0	1.0	1.0
5	3	1	CGCCTCCCTC	1606	0.6	0.3	0.2
3	3	3	CGGGGTATCG	1607	1.0	1.0	1.0
3	2	4	CGGTAATCC	1608	0.7	2.0	1.3
2	7	0	CTTATATAAA	1609	3.5	0.0	0.0
1	5	3	GAATAGGTAA	1610	5.0	0.6	3.0
1	5	3	GAACCATTAT	1611	5.0	0.6	3.0
4	1	4	GAAGGGATTGG	1612	0.3	4.0	1.0
3	2	4	GACACTTTA	1613	0.7	2.0	1.3
2	4	3	GAGGCACGTT	1614	2.0	0.8	1.5
1	4	4	GACTATTGTT	1615	4.0	1.0	4.0
2	3	4	GAGTGTTCAC	1616	1.5	1.3	2.0
3	2	4	GATCCAGACG	1617	0.7	2.0	1.3
4	0	5	GATGGTAGTG	1618	0.0	#DIV/0!	1.3
2	2	5	GCACAGAATT	1619	1.0	2.5	2.5
7	1	1	GCCTGGAAAG	1620	0.1	1.0	0.1
1	5	3	GCCTTACAAA	1621	5.0	0.6	3.0
2	3	4	GCGAACAGG	1622	1.5	1.3	2.0

Table 5, cont.

1	4	4	GCTAAGAAC	1623	4.0	1.0	4.0
2	5	2	GCTCTTATAC	1624	2.5	0.4	1.0
5	2	2	GGATGCAGAA	1625	0.4	1.0	0.4
2	1	6	GGCGCAATT	1626	0.5	6.0	3.0
1	1	7	GGCTAGGTTT	1627	1.0	7.0	7.0
4	3	2	GGCTTACCTT	1628	0.8	0.7	0.5
2	4	3	GGGAAGAGCT	1629	2.0	0.8	1.5
0	2	7	GGTGTACGA	1630	#DIV/0!	3.5	#DIV/0!
3	3	3	GTATAGCTCA	1631	1.0	1.0	1.0
2	1	6	GTCACTTGG	1632	0.5	6.0	3.0
3	4	2	GTGTCGCCA	1633	1.3	0.5	0.7
4	1	4	GTGATGAACT	1634	0.3	4.0	1.0
5	0	4	GTGGCTGCCCTC	1635	0.0	#DIV/0!	0.8
5	3	1	GTTCCTTTG	1636	0.6	0.3	0.2
5	2	2	GTGGACGGT	1637	0.4	1.0	0.4
1	6	2	GTTTCTATAI	1638	6.0	0.3	2.0
6	3	0	TAAGTGATGA	1639	0.5	0.0	0.0
5	3	1	TATCTATTT	1640	0.6	0.3	0.2
4	2	3	TCAAAGAAC	1641	0.5	1.5	0.8
4	4	1	TCCCCGTAAI	1642	1.0	0.3	0.3
0	9	0	TGTTAAAAG	1643	#DIV/0!	0.0	#DIV/0!
3	3	3	TGCATATATG	1644	1.0	1.0	1.0
0	2	7	TGCTTTGAAT	1645	#DIV/0!	3.5	#DIV/0!
1	2	6	TGGCCTCAA	1646	2.0	3.0	6.0
2	3	4	TGGGGGACAT	1647	1.5	1.3	2.0
3	4	2	TGGGTCACTG	1648	1.3	0.5	0.7
4	4	1	TGTATACAAA	1649	1.0	0.3	0.3
4	2	3	TGTCCTCAAT	1650	0.5	1.5	0.8

Table 5, cont.

3	4	2	TTAATTCAATC	1651	1.3	0.5	0.7
5	2	2	TTGAGGAACG	1652	0.4	1.0	0.4
2	3	4	TTGTCCGGCAC	1653	1.5	1.3	2.0
3	4	2	TTGTTGAATT	1654	1.3	0.5	0.7
4	2	3	TTTAAGAAAGA	1655	0.5	1.5	0.8
0	6	2	AAAAGTCGT	1656	#DIV/0!	0.3	#DIV/0!
1	5	2	AAATTAGGTA	1657	5.0	0.4	2.0
5	0	3	AAGCTGAATT	1658	0.0	#DIV/0!	0.6
4	2	2	AAGCTGCTGA	1659	0.5	1.0	0.5
4	4	0	AGGACTTGT	1660	1.0	0.0	0.0
3	3	2	AAATAAAAAA	1661	1.0	0.7	0.7
3	1	4	AAATATAGAAA	1662	0.3	4.0	1.3
2	6	0	AAATCAATTAA	1663	3.0	0.0	0.0
3	3	2	AAATTCCITT	1664	1.0	0.7	0.7
2	3	3	ACAAAGATGA	1665	1.5	1.0	1.5
2	5	1	ACATATGTTA	1666	2.5	0.2	0.5
3	3	2	ACCTGTTAC	1667	1.0	0.7	0.7
0	2	6	ACGACAACCT	1668	#DIV/0!	3.0	#DIV/0!
3	3	2	AGACAAAAC	1669	1.0	0.7	0.7
1	1	6	AGCAGGAGTT	1670	1.0	6.0	6.0
3	4	1	ATAAATTTTC	1671	1.3	0.3	0.3
0	5	3	ATCACCAAAAG	1672	#DIV/0!	0.6	#DIV/0!
2	1	5	ATCAGACAAA	1673	0.5	5.0	2.5
1	4	3	ATCAGATGGG	1674	4.0	0.8	3.0
4	3	1	ATCCCTAGAAA	1675	0.8	0.3	0.3
0	2	6	ATGAAGGTGC	1676	#DIV/0!	3.0	#DIV/0!
1	5	2	ATGAAGTCGT	1677	5.0	0.4	2.0
1	5	2	ATGACCAAACC	1678	5.0	0.4	2.0

Table 5, cont.

3	3	2	2	ATGATCAACC	1679	1.0	0.7	0.7
2	2	4	4	ATGATCGGGA	1680	1.0	2.0	2.0
1	1	6	6	ATGCTCGGCT	1681	1.0	6.0	6.0
2	3	3	3	ATGCCTTACG	1682	1.5	1.0	1.5
4	2	2	2	ATGGACAGTG	1683	0.5	1.0	0.5
2	3	3	3	ATGGCACCGA	1684	1.5	1.0	1.5
2	4	2	2	ATGGGCACG	1685	2.0	0.5	1.0
2	2	4	4	ATTCGTTCTA	1686	1.0	2.0	2.0
3	3	2	2	CAAAAAAAA	1687	1.0	0.7	0.7
4	2	2	2	CAAATAGTT	1688	0.5	1.0	0.5
2	2	4	4	CAA GTAGCAA	1689	1.0	2.0	2.0
2	4	2	2	CACAAGAAATA	1690	2.0	0.5	1.0
6	1	1	1	CAGAAAAAGAA	1691	0.2	1.0	0.2
3	1	4	4	CCATTTGGCTC	1692	0.3	4.0	1.3
5	1	2	2	CCCCTTGATA	1693	0.2	2.0	0.4
1	4	3	3	CCCTACACGG	1694	4.0	0.8	3.0
2	5	1	1	CGACGGGAGT	1695	2.5	0.2	0.5
2	2	4	4	CTAGCCGGCAT	1696	1.0	2.0	2.0
4	2	2	2	CTATTCTGTG	1697	0.5	1.0	0.5
3	3	2	2	CTTGACGGC	1698	1.0	0.7	0.7
1	5	2	2	GAAAAGAACGA	1699	5.0	0.4	2.0
4	0	4	4	GAAATTATTC	1700	0.0	#DIV/0!	1.0
1	0	7	7	GAAGCAGTAA	1701	0.0	#DIV/0!	7.0
4	2	.2	.2	GACAACCTCA	1702	0.5	1.0	0.5
1	5	2	2	GACAATTCTAT	1703	5.0	0.4	2.0
4	2	2	2	GAGGCTGGTT	1704	0.5	1.0	0.5
5	0	3	3	GATTTTATT	1705	0.0	#DIV/0!	0.6
0	3	5	5	GCAAGAAAAA	1706	0.0	#DIV/0!	1.7

Table 5, cont.

2	4	2	GCATAAATAC	1707	2.0	0.5	1.0
4	1	3	GCATTTTC	1708	0.3	3.0	0.8
0	5	3	GCCAAGGAAT	1709	#DIV/0!	0.6	#DIV/0!
0	5	3	GCCTACAACT	1710	#DIV/0!	0.6	#DIV/0!
2	5	1	GGGTAATGAC	1711	2.5	0.2	0.5
1	5	2	GGCCACCTAT	1712	5.0	0.4	2.0
3	0	5	GGTACAGTGT	1713	0.0	#DIV/0!	1.7
2	3	3	GGTACCAACT	1714	1.5	1.0	1.5
3	1	4	GGTGGATAACC	1715	0.3	4.0	1.3
3	3	2	GTAATACATT	1716	1.0	0.7	0.7
1	5	2	GTAATTGGAC	1717	5.0	0.4	2.0
0	5	3	GTACCTCAT	1718	#DIV/0!	0.6	#DIV/0!
1	6	1	GTCAAGGTTT	1719	6.0	0.2	1.0
1	4	3	GTCCCATCGGC	1720	4.0	0.8	3.0
4	2	2	GTCGTCAAGC	1721	0.5	1.0	0.5
4	1	3	GTCTAAACTG	1722	0.3	3.0	0.8
2	2	4	GTGATGGATG	1723	1.0	2.0	2.0
4	2	2	GTGATTTCC	1724	0.5	1.0	0.5
2	2	4	GTATTGTC	1725	1.0	2.0	2.0
3	4	1	GTTCCTTCCT	1726	1.3	0.3	0.3
1	4	3	TAATGTGTC	1727	4.0	0.8	3.0
2	3	3	TAACAAAAGT	1728	1.5	1.0	1.5
2	4	2	TAACAGCGTA	1729	2.0	0.5	1.0
5	3	0	TAACATATA	1730	0.6	0.0	0.0
4	2	2	TACATATTAT	1731	0.5	1.0	0.5
0	5	3	TACGTGTATT	1732	#DIV/0!	0.6	#DIV/0!
6	1	1	TACTACATAC	1733	0.2	1.0	0.2
2	4	2	TACTACTAA	1734	2.0	0.5	1.0

Table 5, cont.

					0.4	0.5	0.5	0.2
					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5	2	1	TACTATTGAA	1735				
2	3	3	TAGATGCATC	1736	1.5	1.0	1.0	1.5
1	7	0	TAGTTTTTTT	1737	7.0	0.0	0.0	0.0
2	5	1	TATGGTAAT	1738	2.5	0.2	0.2	0.5
0	3	5	TATGTATCTG	1739	#DIV/0!	1.7	1.7	#DIV/0!
3	5	0	TCAAACATCC	1740	1.7	0.0	0.0	0.0
0	6	2	TCAGCTAATT	1741	#DIV/0!	0.3	0.3	#DIV/0!
1	1	6	TCATTTGACT	1742	1.0	6.0	6.0	6.0
2	3	3	TCCAAATTCT	1743	1.5	1.0	1.0	1.5
3	5	0	TCAGAACCA	1744	1.7	0.0	0.0	0.0
3	3	2	TCCCATTAG	1745	1.0	0.7	0.7	0.7
1	6	1	TCGTACCTT	1746	6.0	0.2	0.2	1.0
1	3	4	TCTCTCCATT	1747	3.0	1.3	1.3	4.0
3	4	1	TGCTGCTGAA	1748	1.3	0.3	0.3	0.3
5	3	0	TGTATGTATA	1749	0.6	0.0	0.0	0.0
2	2	4	TGTGGGTATA	1750	1.0	2.0	2.0	2.0
4	4	0	TTACACTAA	1751	1.0	0.0	0.0	0.0
0	7	1	TTATGAAAGA	1752	#DIV/0!	0.1	0.1	#DIV/0!
0	6	2	TTCACCCCTC	1753	#DIV/0!	0.3	0.3	#DIV/0!
2	3	3	TTCAGCGAGA	1754	1.5	1.0	1.0	1.5
3	2	3	TTCGTCTTTT	1755	0.7	1.5	1.5	1.0
2	5	1	TTCTTGATGA	1756	2.5	0.2	0.2	0.5
1	2	5	TTTGAATCTG	1757	2.0	2.5	2.5	5.0
2	4	2	TTTGGGAGAA	1758	2.0	0.5	0.5	1.0
3	4	1	TTTGGGCTG	1759	1.3	0.3	0.3	0.3
3	5	0	TTTTCAAAA	1760	1.7	0.0	0.0	0.0
3	4	0	AAAGACATAT	1761	1.3	0.0	0.0	0.0
1	4	2	AAAGAGGGAA	1762	4.0	0.5	0.5	2.0

Table 5, cont.

3	2	2	AAAGTTCAG	1763	0.7	1.0	0.7
5	1	1	AAACAATCGA	1764	0.2	1.0	0.2
1	3	3	AACAGGCCATC	1765	3.0	1.0	3.0
2	2	3	AACATTACTT	1766	1.0	1.5	1.5
0	6	1	AAGGCAACG	1767	#DIV/0!	0.2	#DIV/0!
0	4	3	AAGCTGAGGA	1768	#DIV/0!	0.8	#DIV/0!
1	2	4	AAGTGAAGGA	1769	2.0	2.0	4.0
4	2	1	AAATACATT	1770	0.5	0.5	0.3
2	2	3	AAATGCTCCAG	1771	1.0	1.5	1.5
3	3	1	AATTAGTGGAA	1772	1.0	0.3	0.3
2	2	3	ACAAATGAATT	1773	1.0	1.5	1.5
1	3	3	ACACATTGGA	1774	3.0	1.0	3.0
0	5	2	ACCATCCACG	1775	#DIV/0!	0.4	#DIV/0!
0	0	7	ACGAAATTCC	1776	#DIV/0!	#DIV/0!	#DIV/0!
2	2	3	ACTATCGAAG	1777	1.0	1.5	1.5
2	1	4	ACTTGGCAA	1778	0.5	4.0	2.0
4	1	2	AGAACCTCGT	1779	0.3	2.0	0.5
2	4	1	AGAAATTGGTT	1780	2.0	0.3	0.5
3	1	3	AGACCGAACTG	1781	0.3	3.0	1.0
5	1	1	AGAGCTTTA	1782	0.2	1.0	0.2
0	0	7	AGCAAACTGT	1783	#DIV/0!	#DIV/0!	#DIV/0!
1	0	6	AGCGTCCTCA	1784	0.0	#DIV/0!	6.0
1	2	4	AGCTCATTGG	1785	2.0	2.0	4.0
3	1	3	AGGATGAAGA	1786	0.3	3.0	1.0
4	2	1	AGTGATTCTC	1787	0.5	0.5	0.3
4	0	3	ATACCTGGT	1788	0.0	#DIV/0!	0.8
1	4	2	ATAGCACCA	1789	4.0	0.5	2.0
4	0	3	ATAGGAAAAGC	1790	0.0	#DIV/0!	0.8

Table 5, cont.

2	5	0	ATAGTAACGA	1791	2.5	0.0	0.0
2	3	2	ATAGTAAGGT	1792	1.5	0.7	1.0
3	2	2	ATATCAAACA	1793	0.7	1.0	0.7
1	4	2	ATCTTGTGCGT	1794	4.0	0.5	2.0
0	7	0	ATGGCTGAACC	1795	#DIV/0!	0.0	#DIV/0!
1	0	6	ATGCCTGGTAG	1796	0.0	#DIV/0!	6.0
5	1	1	ATGTCGGCCTC	1797	0.2	1.0	0.2
4	2	1	ATGTTTCTTA	1798	0.5	0.5	0.3
2	2	3	ATTCAAGATA	1799	1.0	1.5	1.5
2	3	2	ATTGAATGAA	1800	1.5	0.7	1.0
2	0	5	ATTGGCATCTC	1801	0.0	#DIV/0!	2.5
0	6	1	CAAAGCCATC	1802	#DIV/0!	0.2	#DIV/0!
4	1	2	CAAATAAGGG	1803	0.3	2.0	0.5
1	3	3	CAACTGTTGA	1804	3.0	1.0	3.0
1	5	1	CAAGACAGTT	1805	5.0	0.2	1.0
0	5	2	CACAGGCCATCA	1806	#DIV/0!	0.4	#DIV/0!
4	1	2	CACATCTATA	1807	0.3	2.0	0.5
4	1	2	CAGAGTTGAA	1808	0.3	2.0	0.5
2	4	1	CAGATAATAAT	1809	2.0	0.3	0.5
3	1	3	CAGGAAATAA	1810	0.3	3.0	1.0
1	3	3	CAGGAGTGCA	1811	3.0	1.0	3.0
4	2	1	CATACTTCA	1812	0.5	0.5	0.3
5	2	0	CATTTTTAGT	1813	0.4	0.0	0.0
3	3	1	CATTTTTTATG	1814	1.0	0.3	0.3
1	3	3	CCAAAAGGCA	1815	3.0	1.0	3.0
2	4	1	CCAAAAGGGA	1816	2.0	0.3	0.5
1	3	3	CCCTCCCTAA	1817	3.0	1.0	3.0
3	3	1	CGGACTACAT	1818	1.0	0.3	0.3

Table 5, cont.

2	1	4	CCGTTCCGAA	1819	0.5	4.0		2.0
1	6	0	CGCTTGCTAT	1820	6.0	0.0	0.0	0.0
4	1	2	GGGTCTAAC	1821	0.3	2.0	0.5	0.5
2	2	3	CTAAAGGCC	1822	1.0	1.5	1.5	1.5
2	1	4	CTAAGCAGGA	1823	0.5	4.0	2.0	2.0
2	0	5	CTAGTTTGC	1824	0.0	#DIV/0!	2.5	
3	3	1	CTATTATAAA	1825	1.0	0.3	0.3	0.3
2	3	2	CTCATTTAA	1826	1.5	0.7	1.0	1.0
2	2	3	CTGCGAAAAG	1827	1.0	1.5	1.5	1.5
3	1	3	CTGTTTCGA	1828	0.3	3.0	1.0	1.0
2	0	5	CTGTTTGGG	1829	0.0	#DIV/0!	2.5	
2	4	1	CTTGCAGAAG	1830	2.0	0.3	0.5	0.5
1	4	2	GAAAAATAGCA	1831	4.0	0.5	2.0	2.0
1	1	5	GAAAGTGTATG	1832	1.0	5.0	5.0	5.0
4	0	3	GAACGGTTGT	1833	0.0	#DIV/0!	0.8	
5	1	1	GAAGACCTAC	1834	0.2	1.0	0.2	0.2
1	2	4	GAAGATTGTA	1835	2.0	2.0	4.0	4.0
2	1	4	GAAGTGGACG	1836	0.5	4.0	2.0	2.0
4	2	1	GAATACTGCA	1837	0.5	0.5	0.3	0.3
4	2	1	GACAAGCTAT	1838	0.5	0.5	0.3	0.3
1	5	1	GACAGTCAGT	1839	5.0	0.2	1.0	1.0
3	3	1	GACCCCTTCCT	1840	1.0	0.3	0.3	0.3
1	3	3	GACGATAGTG	1841	3.0	1.0	3.0	3.0
2	3	2	GAGCTTTGG	1842	1.5	0.7	1.0	1.0
3	1	3	GATAGTTAG	1843	0.3	3.0	1.0	1.0
2	4	1	GATTAAGACA	1844	2.0	0.3	0.5	0.5
5	2	0	GCAAAATAGT	1845	0.4	0.0	0.0	0.0
4	0	3	GCAAAGCAA	1846	0.0	#DIV/0!	0.8	

Table 5, cont.

4	1	2	GCAAGTCGCA	1847	0.3	2.0	0.5
3	1	3	GCATAATCTG	1848	0.3	3.0	1.0
2	3	2	GCATACGGCTG	1849	1.5	0.7	1.0
3	4	0	GCGGCATTG	1850	1.3	0.0	0.0
4	1	2	GCGGCTGGC	1851	0.3	2.0	0.5
1	2	4	GCGTCAAGAT	1852	2.0	2.0	4.0
0	6	1	GCTATGAATT	1853	#DIV/0!	0.2	#DIV/0!
2	2	3	GCTATGTACA	1854	1.0	1.5	1.5
4	1	2	GCTTGTTTTC	1855	0.3	2.0	0.5
3	2	2	GGAAAAATAC	1856	0.7	1.0	0.7
1	3	3	GGAACTCAGC	1857	3.0	1.0	3.0
2	0	5	GGATGCAATC	1858	0.0	#DIV/0!	2.5
2	2	3	GGATGGCTCG	1859	1.0	1.5	1.5
2	2	3	GGAAAGAACCT	1860	1.0	1.5	1.5
2	1	4	GGTAGTGGCA	1861	0.5	4.0	2.0
0	3	4	GGTCTCATCC	1862	#DIV/0!	1.3	#DIV/0!
3	2	2	GGTGCTAACG	1863	0.7	1.0	0.7
2	1	4	GGTGTCAACG	1864	0.5	4.0	2.0
1	2	4	GGTGTACCG	1865	2.0	2.0	4.0
2	2	3	GGTGTGGTA	1866	1.0	1.5	1.5
5	2	0	GGTTGGACA	1867	0.4	0.0	0.0
3	0	4	GGTTGGCTA	1868	0.0	#DIV/0!	1.3
2	0	5	GGTTGGTT	1869	0.0	#DIV/0!	2.5
2	5	0	GTAATAACCA	1870	2.5	0.0	0.0
2	3	2	GTACAAGGGT	1871	1.5	0.7	1.0
2	1	4	GTAGACCAAC	1872	0.5	4.0	2.0
2	2	3	GTATCAGAAA	1873	1.0	1.5	1.5
0	4	3	GTCTACCCCTG	1874	#DIV/0!	0.8	#DIV/0!

Table 5, cont.

Table 5, cont.

1	3	3	TCTTACAATA	1903	3.0	1.0		3.0
0	5	2	TGGATTTCAG	1904	#DIV/0!	0.4		#DIV/0!
1	2	4	TGGCACCTCA	1905	2.0	2.0		4.0
1	4	2	TGGGAGTCGT	1906	4.0	0.5		2.0
2	3	2	TGTACCTGTA	1907	1.5	0.7		1.0
1	4	2	TGTGTGTTCAC	1908	4.0	0.5		2.0
1	5	1	TTAAACACAAA	1909	5.0	0.2		1.0
1	3	3	TTAACACAGA	1910	3.0	1.0		3.0
6	1	0	TTAATGACAC	1911	0.2	0.0		0.0
1	6	0	TTAGTTTGG	1912	6.0	0.0		0.0
4	2	1	TTATGTAGAT	1913	0.5	0.5		0.3
1	5	1	TTATTTCGTT	1914	5.0	0.2		1.0
2	2	3	TTCCCAACCGT	1915	1.0	1.5		1.5
1	4	2	TTCTTATTAGG	1916	4.0	0.5		2.0
1	3	3	TTGAAAAAAA	1917	3.0	1.0		3.0
2	2	3	TTGAAAGAT	1918	1.0	1.5		1.5
3	3	1	TTGAAATT	1919	1.0	0.3		0.3
0	4	3	TTGCCAGTC	1920	#DIV/0!	0.8		#DIV/0!
3	2	2	TTGCTGGAAAG	1921	0.7	1.0		0.7
7	0	0	TTGGGTATGAT	1922	0.0	#DIV/0!		0.0
1	1	5	TTGCTTTCC	1923	1.0	5.0		5.0
0	4	3	TTGTGCCCAT	1924	#DIV/0!	0.8		#DIV/0!
3	2	2	TTTCTAGAA	1925	0.7	1.0		0.7
7	0	0	TTTTTGATGA	1926	0.0	#DIV/0!		0.0
1	2	3	AAAAGGGGT	1927	2.0	1.5		3.0
1	5	0	AAAACGTAAC	1928	5.0	0.0		0.0
2	3	1	AAAAGTTAA	1929	1.5	0.3		0.5
3	1	2	AAAATGCAA	1930	0.3	2.0		0.7

Table 5, cont.

					0.3
3	2	1	AAAGAAGATG	1931	0.7
0	4	2	AAAGATGGGA	1932	#DIV/0!
4	1	1	AAATTAGATA	1933	0.3
3	3	0	AACAAATTGA	1934	1.0
1	4	1	AACAACAACA	1935	4.0
2	2	2	AACGGCCCAA	1936	1.0
3	1	2	AACGGCCAGA	1937	0.3
2	3	1	AACGTAACTA	1938	1.5
2	3	1	AACTTTGGC	1939	1.5
0	2	4	AAGAAAAGGAT	1940	#DIV/0!
3	1	2	AAGACCAAGA	1941	0.3
3	1	2	AAGACTGTGC	1942	0.3
0	1	5	AAGCGATGAG	1943	#DIV/0!
6	0	0	AAGGCAGGGT	1944	0.0
1	3	2	AAGGTGCCAG	1945	3.0
1	3	2	AAGTGCAAA	1946	3.0
1	2	3	AAGTGTGG	1947	2.0
1	1	4	AATATGCCGC	1948	1.0
3	1	2	AATCTCAAAA	1949	0.3
1	0	5	AATGACACTT	1950	0.0
2	3	1	AATGTGTAA	1951	1.5
3	2	1	AATTAGACTA	1952	0.7
3	3	0	ACAAATAACT	1953	1.0
2	2	2	ACAAGAAAGT	1954	1.0
4	0	2	ACAAGATTAA	1955	0.0
4	1	1	ACACTATTIC	1956	0.3
2	0	4	ACAGCAAACG	1957	0.0
0	1	5	ACCACCCCTG	1958	#DIV/0!
					5.0
					#DIV/0!

Table 5, cont.

Table 5, cont.

1	5	0	ATGACCCAA	1987	5.0	0.0	0.0
4	1	1	ATGCCGGTC	1988	0.3	1.0	0.3
3	2	1	ATGGGTTAA	1989	0.7	0.5	0.3
1	4	1	ATGGTAGCCA	1990	4.0	0.3	1.0
3	0	3	ATGGTGGCGT	1991	0.0	#DIV/0!	1.0
2	2	2	ATGGTGTGATT	1992	1.0	1.0	1.0
0	2	4	ATTACCTTCG	1993	#DIV/0!	2.0	#DIV/0!
2	4	0	ATTCCCTGCTG	1994	2.0	0.0	0.0
1	3	2	ATTCGTCCAA	1995	3.0	0.7	2.0
2	3	1	ATTTACAACG	1996	1.5	0.3	0.5
1	2	3	ATTTGTAAC	1997	2.0	1.5	3.0
4	1	1	ATTTTGCIG	1998	0.3	1.0	0.3
0	4	2	CAAAAAGTTG	1999	#DIV/0!	0.5	#DIV/0!
1	1	4	CAAAGATGGC	2000	1.0	4.0	4.0
3	0	3	CAACAAAGTG	2001	0.0	#DIV/0!	1.0
3	0	3	CAACAAGGTAA	2002	0.0	#DIV/0!	1.0
1	1	4	CAACATCAC	2003	1.0	4.0	4.0
3	1	2	CAACTGGAC	2004	0.3	2.0	0.7
3	2	1	CAACTTGTGA	2005	0.7	0.5	0.3
5	0	1	CAAGAGAAGT	2006	0.0	#DIV/0!	0.2
1	3	2	CAATAAAAGC	2007	3.0	0.7	2.0
0	3	3	CACACGGCACA	2008	#DIV/0!	1.0	#DIV/0!
3	2	1	CACTGTGGC	2009	0.7	0.5	0.3
0	6	0	CAGATAAAA	2010	#DIV/0!	0.0	#DIV/0!
3	1	2	CAGGCAATTAA	2011	0.3	2.0	0.7
1	2	3	CAGGGATGAGA	2012	2.0	1.5	3.0
1	1	4	CATAAAATGC	2013	1.0	4.0	4.0
4	1	1	CATACATAAA	2014	0.3	1.0	0.3

Table 5, cont.

2	2	2	2	CATACTCCTC	2015	1.0	1.0	1.0
3	2	1	1	CATACTGGCG	2016	0.7	0.5	0.3
1	4	1	1	CATTCAAACC	2017	4.0	0.3	1.0
2	1	3	3	CATTCAAGTG	2018	0.5	3.0	1.5
3	2	1	1	CCAAAATGCT	2019	0.7	0.5	0.3
3	2	1	1	CCAAAATATCT	2020	0.7	0.5	0.3
3	1	2	2	CCAAGAGGTGG	2021	0.3	2.0	0.7
1	0	5	5	CCACCTAATG	2022	0.0	#DIV/0!	5.0
2	3	1	1	CCACTGTATA	2023	1.5	0.3	0.5
2	2	2	2	CCAGGTCGTA	2024	1.0	1.0	1.0
2	2	2	2	CCAGTTACAT	2025	1.0	1.0	1.0
0	1	5	5	CCCATAAGAA	2026	#DIV/0!	5.0	#DIV/0!
1	3	2	2	CCCCCTTAATG	2027	3.0	0.7	2.0
1	4	1	1	CCCTTATTAA	2028	4.0	0.3	1.0
3	1	2	2	CCCTTCCCTT	2029	0.3	2.0	0.7
0	2	4	4	CCGTTTAGGA	2030	#DIV/0!	2.0	#DIV/0!
1	0	5	5	CCTAAAGTTT	2031	0.0	#DIV/0!	5.0
1	4	1	1	CGAAATCGAG	2032	4.0	0.3	1.0
1	2	3	3	CGTCAACAAC	2033	2.0	1.5	3.0
1	3	2	2	CTACACAGGT	2034	3.0	0.7	2.0
1	4	1	1	CTATAGAAC	2035	4.0	0.3	1.0
1	1	4	4	CTATCCAACA	2036	1.0	4.0	4.0
2	0	4	4	CTCAGAAAAG	2037	0.0	#DIV/0!	2.0
4	2	0	0	CTGCTTTGT	2038	0.5	0.0	0.0
5	0	1	1	CTTAATGCCG	2039	0.0	#DIV/0!	0.2
3	2	1	1	CTTTTATACT	2040	0.7	0.5	0.3
3	3	0	0	CTTTCGTGCT	2041	1.0	0.0	0.0
2	2	2	2	GAAAAGGGT	2042	1.0	1.0	1.0

Table 5, cont.

							#DIV/0!		0.2
5	0	1	GAAAATTAAAC	2043	0.0				
1	2	3	GAAACAAAGG	2044	2.0	1.5		3.0	
2	0	4	GAAACGGGTGT	2045	0.0		#DIV/0!		2.0
1	2	3	GAAGAACGTC	2046	2.0	1.5			3.0
3	1	2	GAATAATAGA	2047	0.3	2.0			0.7
4	2	0	GAATGGAAATC	2048	0.5	0.0			0.0
2	2	2	GACAAAGTTG	2049	1.0	1.0			1.0
2	3	1	GACTTTTGG	2050	1.5	0.3			0.5
1	3	2	GATAATGACA	2051	3.0	0.7			2.0
1	3	2	GATACTACGG	2052	3.0	0.7			2.0
2	2	2	GATATGCTAT	2053	1.0	1.0			1.0
1	2	3	GATCCAGTAG	2054	2.0	1.5			3.0
2	0	4	GATCCATTCT	2055	0.0		#DIV/0!		2.0
2	1	3	GCAAAAGACTA	2056	0.5	3.0			1.5
5	1	0	GCAAGATCTT	2057	0.2	0.0			0.0
2	2	2	GCAAGGTGCA	2058	1.0	1.0			1.0
4	1	1	GCAAGTTCTT	2059	0.3	1.0			0.3
1	4	1	GCAGTTCAA	2060	4.0	0.3			1.0
4	1	1	GCCAAAATCT	2061	0.3	1.0			0.3
2	1	3	GCCCCGCACTA	2062	0.5	3.0			1.5
1	1	4	GCCGGTTTC	2063	1.0	4.0			4.0
2	1	3	GCCGTCGCCG	2064	0.5	3.0			1.5
2	2	2	GCGAACCGAT	2065	1.0	1.0			1.0
0	2	.4	GCGGCAGAAT	2066			#DIV/0!		#DIV/0!
2	2	2	GCGGTGGTTT	2067	1.0	1.0			1.0
1	3	2	GCTAGAAACA	2068	3.0	0.7			2.0
3	1	2	GCTGATCAAG	2069	0.3	2.0			0.7
2	2	2	GCTTGGATGC	2070	1.0	1.0			1.0

Table 5, cont.

3	1	2	GGACAAACTG	2071	0.3	2.0	0.7
2	2	2	GGACAGAGCT	2072	1.0	1.0	1.0
3	2	1	GGACTATAAG	2073	0.7	0.5	0.3
3	1	2	GGATATGGCA	2074	0.3	2.0	0.7
0	4	2	GGCCTTGGCG	2075	#DIV/0!	0.5	#DIV/0!
4	1	1	GGCGAAAACG	2076	0.3	1.0	0.3
0	4	2	GGCTCTAGTT	2077	#DIV/0!	0.5	#DIV/0!
3	1	2	GGCTTGGCTT	2078	0.3	2.0	0.7
4	0	2	GGGAGCCTTA	2079	0.0	#DIV/0!	0.5
3	0	3	GGGCTCTTGA	2080	0.0	#DIV/0!	1.0
3	2	1	GGGGCATATA	2081	0.7	0.5	0.3
1	5	0	GGTAACACGC	2082	5.0	0.0	0.0
0	0	6	GGTGTAAACGA	2083	#DIV/0!	#DIV/0!	#DIV/0!
3	2	1	GTAAATTITG	2084	0.7	0.5	0.3
2	1	3	GTACAAAGAG	2085	0.5	3.0	1.5
3	3	0	GTAGCGCCCTG	2086	1.0	0.0	0.0
2	2	2	GTATTCCCTGA	2087	1.0	1.0	1.0
0	6	0	GTCTATAGT	2088	#DIV/0!	0.0	#DIV/0!
2	1	3	GTCCCACATA	2089	0.5	3.0	1.5
2	1	3	GTCTGGGGCG	2090	0.5	3.0	1.5
2	3	1	GTGACTTTGC	2091	1.5	0.3	0.5
5	0	1	GTGGAGCTGT	2092	0.0	#DIV/0!	0.2
2	1	3	GTGGAAAGG	2093	0.5	3.0	1.5
3	1	2	GTGGTGCTT	2094	0.3	2.0	0.7
1	1	4	GTGTCAATTA	2095	1.0	4.0	4.0
3	0	3	GTGTGACGGAT	2096	0.0	#DIV/0!	1.0
2	4	0	GTATTCACT	2097	2.0	0.0	0.0
3	1	2	GTGGAAGCAG	2098	0.3	2.0	0.7

Table 5, cont.

4	2	0	GTTTGGATTAT	2099	0.5	0.0	0.0	0.0
3	2	1	GTTTTGGTT	2100	0.7	0.5	0.3	0.3
3	2	1	TAAACTAATA	2101	0.7	0.5	0.3	0.3
3	3	0	TAAGACTTTT	2102	1.0	0.0	0.0	0.0
2	2	2	TAATTTACTT	2103	1.0	1.0	1.0	1.0
2	2	2	TACAAATAAT	2104	1.0	1.0	1.0	1.0
3	1	2	TACCACTCCC	2105	0.3	2.0	0.7	0.7
1	1	4	TACGAGAATA	2106	1.0	4.0	4.0	4.0
1	3	2	TACITTTATAT	2107	3.0	0.7	2.0	2.0
4	1	1	TAGCCGGTAAA	2108	0.3	1.0	0.3	0.3
2	2	2	TAGGCCGGACA	2109	1.0	1.0	1.0	1.0
3	2	1	TATAATAACT	2110	0.7	0.5	0.3	0.3
2	3	1	TATACACACA	2111	1.5	0.3	0.5	0.5
2	3	1	TACTACTAGGA	2112	1.5	0.3	0.5	0.5
2	4	0	TATAGGTCAA	2113	2.0	0.0	0.0	0.0
1	5	0	TATATATTTG	2114	5.0	0.0	0.0	0.0
0	5	1	TATATGCCAA	2115	#DIV/0!	0.2	#DIV/0!	#DIV/0!
3	3	0	TATATGTATT	2116	1.0	0.0	0.0	0.0
1	3	2	TATCCATACA	2117	3.0	0.7	2.0	2.0
2	2	2	TATCTACAAAT	2118	1.0	1.0	1.0	1.0
2	3	1	TATCTAGTTT	2119	1.5	0.3	0.5	0.5
4	2	0	TATCTATCTA	2120	0.5	0.0	0.0	0.0
2	1	3	TATGAAACGT	2121	0.5	3.0	1.5	1.5
2	2	2	TATTGAATGC	2122	1.0	1.0	1.0	1.0
3	2	1	TATTGGGAAA	2123	0.7	0.5	0.3	0.3
2	2	2	TCAAATTCTTG	2124	1.0	1.0	1.0	1.0
1	4	1	TCCCCGTAGC	2125	4.0	0.3	1.0	1.0
3	3	0	TCCCTATTAG	2126	1.0	0.0	0.0	0.0

Table 5, cont.

					4.0	4.0
					#DIV/0!	#DIV/0!
1	1	4	TCCTTGTACT	2127	1.0	
0	5	1	TCGACCACAC	2128	0.2	#DIV/0!
5	0	1	TCTGAATCTT	2129	0.0	#DIV/0!
3	1	2	TCTGATATCT	2130	0.3	0.7
0	2	4	TGAATGGACA	2131	#DIV/0!	2.0
3	3	0	TGAGGGCTTGC	2132	1.0	0.0
1	1	4	TGATGAAGAT	2133	1.0	4.0
0	3	3	TGGGGTTTA	2134	#DIV/0!	1.0
3	2	1	TGCTGCATAC	2135	0.7	#DIV/0!
2	1	3	TGCCTTGATT	2136	0.5	3.0
3	1	2	TGGTATCCCA	2137	0.3	2.0
1	2	3	TGGTCATCAA	2138	2.0	0.7
3	0	3	TGTATACGTG	2139	0.0	#DIV/0!
3	2	1	TGTATGACTA	2140	0.7	1.0
1	2	3	TGTGCTAAGC	2141	2.0	0.3
6	0	0	TGTTTTTATG	2142	0.0	#DIV/0!
0	4	2	TTACAATTAA	2143	#DIV/0!	0.5
2	2	2	TTACCTGAC	2144	1.0	1.0
0	3	3	TTATGTTCTC	2145	#DIV/0!	1.0
2	4	0	TTCTATCTAA	2146	2.0	#DIV/0!
1	2	3	TTGAAAACTA	2147	2.0	0.0
1	4	1	TTGAGTTGAA	2148	4.0	3.0
5	1	0	TTGCAATAAA	2149	0.2	1.0
2	3	1	TTGGTGGTCA	2150	1.5	0.0
4	0	2	TTGTGGATGA	2151	0.0	#DIV/0!
4	2	0	TTAACATCG	2152	0.5	0.5
2	2	2	TTTAGTTAAT	2153	1.0	0.0
3	1	2	TTTTCTATC	2154	0.3	1.0
					2.0	0.7

Table 5, cont.

				#DIV/0!		#DIV/0!
0	5	0	AAAAATGAGGG	2155	0.0	0.0
3	2	0	AAAACATAAA	2156	0.7	0.0
3	0	2	AAAATGAAGA	2157	0.0	0.7
3	2	0	AAAATGATCA	2158	0.7	0.0
1	2	2	AAAATGTGG	2159	2.0	1.0
1	3	1	AAAATTCTTT	2160	3.0	0.3
2	2	1	AAACCAGCTG	2161	1.0	0.5
1	2	2	AAACCGTCCC	2162	2.0	1.0
3	1	1	AAACCTGTGA	2163	0.3	1.0
1	2	2	AAACGCCACA	2164	2.0	1.0
0	2	3	AAACTATGAT	2165	#DIV/0!	1.5
3	1	1	AAACTTCAA	2166	0.3	1.0
2	1	2	AAAGTTTCT	2167	0.5	2.0
1	3	1	AAATAATCAA	2168	3.0	0.3
3	2	0	AAATGGTGAT	2169	0.7	0.0
2	2	1	AAATTCCCCG	2170	1.0	0.5
1	1	3	AAATTGAGAT	2171	1.0	3.0
2	0	3	AACACAATAA	2172	0.0	#DIV/0!
1	2	2	AACAGACCAA	2173	2.0	1.0
3	2	0	AACCAAGCTAA	2174	0.7	0.0
0	0	5	AACGACGAGG	2175	#DIV/0!	#DIV/0!
2	0	3	AACGAGTTAT	2176	0.0	#DIV/0!
1	2	2	AACGTCAAGC	2177	2.0	1.0
1	1	3	AACTTACTGT	2178	1.0	3.0
4	0	1	AAGAAGGGCA	2179	0.0	#DIV/0!
1	1	3	AAGAGGAGAA	2180	1.0	3.0
2	2	1	AAGAGGTCAA	2181	1.0	0.5
0	2	3	AAGCCAGGCA	2182	#DIV/0!	1.5

Table 5, cont.

				#DIV/0!		1.5		#DIV/0!
0	2	3	AAGGATAAAG	2183	#DIV/0!	0.3	0.3	#DIV/0!
0	4	1	AAGGGCAAAG	2184	#DIV/0!	0.0	0.0	#DIV/0!
3	0	2	AAGTACTCTA	2185	0.0	1.5	1.0	0.7
2	3	0	AATATAAGTT	2186	0.0	0.0	0.0	0.0
4	0	1	AATACCAGCG	2187	0.0	0.0	0.0	0.3
1	3	1	AATACCATCA	2188	3.0	0.3	0.3	1.0
3	1	1	AATGGAGGGT	2189	0.3	1.0	0.3	0.3
4	0	1	AATTAAATGCA	2190	0.0	0.0	0.0	0.3
2	1	2	AATTACAGAA	2191	0.5	2.0	1.0	1.0
2	0	3	ACAACAGTAT	2192	0.0	0.0	0.0	1.5
3	1	1	ACAAGATTGT	2193	0.3	1.0	0.3	0.3
2	2	1	ACAGGCCAGC	2194	1.0	0.5	0.5	0.5
2	1	2	ACAGGTGTC	2195	0.5	2.0	1.0	1.0
3	2	0	ACATAGGCCA	2196	0.7	0.0	0.0	0.0
0	4	1	ACATCCCCTT	2197	#DIV/0!	0.3	0.3	#DIV/0!
1	3	1	ACATCTCAT	2198	3.0	0.3	1.0	1.0
1	3	1	ACCATTTAGT	2199	3.0	0.3	1.0	1.0
2	2	1	ACCCCAGTCC	2200	1.0	0.5	0.5	0.5
1	2	2	ACCTCCATT	2201	2.0	1.0	2.0	2.0
2	2	1	ACGAGATGCC	2202	1.0	0.5	0.5	0.5
0	2	3	ACGAGCTTGC	2203	#DIV/0!	1.5	1.5	#DIV/0!
3	1	1	ACGATCTGGC	2204	0.3	1.0	0.3	0.3
2	1	2	ACTCTAACAT	2205	0.5	2.0	1.0	1.0
1	4	0	ACTTCGTCTT	2206	4.0	0.0	0.0	0.0
4	0	1	ACTTGACAGC	2207	0.0	0.0	0.0	0.3
2	1	2	ACTTGGGTA	2208	0.5	2.0	1.0	1.0
3	0	2	ACTTTATGGG	2209	0.0	0.0	0.7	0.7
2	0	3	AGAAAAAAACA	2210	0.0	0.0	1.5	1.5

Table 5, cont.

2	1	2	AGAACATCAA	2211	0.5	2.0		1.0
1	2	2	AGAACGTGGG	2212	2.0	1.0		2.0
1	0	4	AGAAGCTGAA	2213	0.0	#DIV/0!		4.0
2	3	0	AGACAAACTA	2214	1.5	0.0		0.0
4	1	0	AGACAGACTG	2215	0.3	0.0		0.0
2	1	2	AGATTAAGAT	2216	0.5	2.0		1.0
2	1	2	AGATTGGAAG	2217	0.5	2.0		1.0
0	2	3	AGCACTATGT	2218	#DIV/0!	1.5		#DIV/0!
2	1	2	AGCAGGGGAA	2219	0.5	2.0		1.0
3	0	2	AGGAAAAGAAT	2220	0.0	#DIV/0!		0.7
3	0	2	AGGAGAGAGA	2221	0.0	#DIV/0!		0.7
2	1	2	AGGCAAACCTG	2222	0.5	2.0		1.0
1	1	3	AGGTCAACGG	2223	1.0	3.0		3.0
1	3	1	AGGTTGATGG	2224	3.0	0.3		1.0
3	1	1	AGTGAaaaaAA	2225	0.3	1.0		0.3
1	0	4	AGTGGATGGT	2226	0.0	#DIV/0!		4.0
0	3	2	AGTTCTTCCT	2227	#DIV/0!	0.7		#DIV/0!
0	3	2	ATACCAGCCT	2228	#DIV/0!	0.7		#DIV/0!
0	2	3	ATAGCAATTG	2229	#DIV/0!	1.5		#DIV/0!
0	2	3	ATCACACAGT	2230	#DIV/0!	1.5		#DIV/0!
2	1	2	ATCATTTGGG	2231	0.5	2.0		1.0
0	5	0	ATCGCATATT	2232	#DIV/0!	0.0		#DIV/0!
2	0	3	ATCGGTACTT	2233	0.0	#DIV/0!		1.5
2	1	2	ATCTCTTACG	2234	0.5	2.0		1.0
1	3	1	ATCTTGAGCT	2235	3.0	0.3		1.0
4	1	0	ATCTTTCAT	2236	0.3	0.0		0.0
0	5	0	ATGAGTTAT	2237	#DIV/0!	0.0		#DIV/0!
3	0	2	ATGGAGCCAA	2238	0.0	#DIV/0!		0.7

Table 5, cont.

2	1	2	ATGGATATGC	2239	0.5	2.0	1.0
2	2	1	ATGGCACGTT	2240	1.0	0.5	0.5
3	2	0	ATTATGGCGT	2241	0.7	0.0	0.0
4	1	0	ATTATTCTC	2242	0.3	0.0	0.0
1	4	0	ATTGAGAAGG	2243	4.0	0.0	0.0
5	0	0	ATTGGGAGAG	2244	0.0	#DIV/0!	0.0
0	1	4	ATTGTCAGG	2245	#DIV/0!	4.0	#DIV/0!
0	0	5	ATTTACAATT	2246	#DIV/0!	#DIV/0!	#DIV/0!
1	1	3	ATTGGACAA	2247	1.0	3.0	3.0
0	4	1	ATTTCCTGTT	2248	#DIV/0!	0.3	#DIV/0!
0	0	5	CAAACAAGAA	2249	#DIV/0!	#DIV/0!	#DIV/0!
1	2	2	CAAAGGAAGC	2250	2.0	1.0	2.0
0	0	5	CAAATCCAAA	2251	#DIV/0!	#DIV/0!	#DIV/0!
2	2	1	CAACTTTATT	2252	1.0	0.5	0.5
1	2	2	CAAGATTATG	2253	2.0	1.0	2.0
3	1	1	CAAGTGCGCA	2254	0.3	1.0	0.3
1	3	1	CAATCCAATA	2255	3.0	0.3	1.0
2	2	1	CAATCGAGGC	2256	1.0	0.5	0.5
1	3	1	CAATCTTA	2257	3.0	0.3	1.0
2	1	2	CAATTGGGAA	2258	0.5	2.0	1.0
2	3	0	CAATTCTTG	2259	1.5	0.0	0.0
3	2	0	CACGCCAAGT	2260	0.7	0.0	0.0
2	2	1	CACGTTAGGG	2261	1.0	0.5	0.5
0	5	0.	CACTAAATT	2262	#DIV/0!	0.0	#DIV/0!
0	1	4	CAGAACCATC	2263	#DIV/0!	4.0	#DIV/0!
2	0	3	CAGGGTAACC	2264	0.0	#DIV/0!	1.5
3	0	2	CAGTATTTAA	2265	0.0	#DIV/0!	0.7
1	4	0	CATAAAATGT	2266	4.0	0.0	0.0

Table 5, cont.

3	1	1	CATCGTAAAA	2267	0.3	1.0	0.3
1	3	1	CCAACAATGA	2268	3.0	0.3	1.0
1	4	0	CCAATGGTC	2269	4.0	0.0	0.0
0	3	2	CCAGAAAGGAG	2270	#DIV/0!	0.7	#DIV/0!
0	3	2	CCATATCTGT	2271	#DIV/0!	0.7	#DIV/0!
4	1	0	CCATTGATGA	2272	0.3	0.0	0.0
1	1	3	CCCGGGTTACT	2273	1.0	3.0	3.0
1	1	3	CCCTTAAGACT	2274	1.0	3.0	3.0
3	0	2	CGAGGTGCIA	2275	0.0	#DIV/0!	#DIV/0!
0	4	1	CGGGCAACAC	2276	#DIV/0!	0.3	#DIV/0!
2	1	2	CCGGGTTACTA	2277	0.5	2.0	1.0
0	5	0	CCTGAGTCGT	2278	#DIV/0!	0.0	#DIV/0!
2	1	2	CCTTACGTCT	2279	0.5	2.0	1.0
0	2	3	CCTTCGTTAC	2280	#DIV/0!	1.5	#DIV/0!
3	1	1	CCTTTAGACT	2281	0.3	1.0	0.3
4	1	0	CCTTTCAAA	2282	0.3	0.0	0.0
1	3	1	CGAAGTGTG	2283	3.0	0.3	1.0
0	3	2	CGAGACTTGG	2284	#DIV/0!	0.7	#DIV/0!
2	2	1	CGATCACCAA	2285	1.0	0.5	0.5
1	2	2	CGATGAGAAG	2286	2.0	1.0	2.0
3	1	1	CGATGTCACT	2287	0.3	1.0	0.3
0	1	4	CGGGGAATGT	2288	#DIV/0!	4.0	#DIV/0!
3	0	2	CGTTTCCGCA	2289	0.0	#DIV/0!	0.7
2	1	2	CTAGGGTTT	2290	0.5	2.0	1.0
1	2	2	CTCACTGACT	2291	2.0	1.0	2.0
1	1	3	CTCTTCTGTT	2292	1.0	3.0	3.0
0	4	1	CTGAACCTTA	2293	#DIV/0!	0.3	#DIV/0!
0	4	1	CTGATAGAAG	2294	#DIV/0!	0.3	#DIV/0!

Table 5, cont.

					#DIV/0!		4.0		#DIV/0!
0	1	4	CTGGAAGAGA	2295	0.7		4.0		#DIV/0!
3	2	0	CTGGCATTTT	2296	0.0		0.0		0.0
1	1	3	CTGGCTCAAG	2297	1.0		3.0		3.0
2	1	2	CTGGTAAATC	2298	0.5		2.0		1.0
2	2	1	CTGTTCTGGC	2299	1.0		0.5		0.5
2	2	1	CTTGAGACGA	2300	1.0		0.5		0.5
1	4	0	CTTGATAATA	2301	4.0		0.0		0.0
2	1	2	CTTGGGCTAT	2302	0.5		2.0		1.0
1	2	2	CTTGTGGATA	2303	2.0		1.0		2.0
1	2	2	CTTACCCAA	2304	2.0		1.0		2.0
1	2	2	CTTCGAAAA	2305	2.0		1.0		2.0
1	4	0	CTTTTCAAA	2306	4.0		0.0		0.0
3	2	0	GAAAAGATT	2307	0.7		0.0		0.0
2	1	2	GAAAAGTAA	2308	0.5		2.0		1.0
2	1	2	GAAACTGAAC	2309	0.5		2.0		1.0
2	0	3	GAAGTGTGTA	2310	0.0	#DIV/0!		1.5	
1	2	2	GAATCCAGTA	2311	2.0		1.0		2.0
2	1	2	GACAAGACGA	2312	0.5		2.0		1.0
0	2	3	GACATTGGA	2313	#DIV/0!		1.5		#DIV/0!
1	3	1	GACCGCAATG	2314	3.0		0.3		1.0
0	1	4	GAGGCTGTTA	2315	#DIV/0!		4.0		#DIV/0!
2	2	1	GAGAACGCAA	2316	1.0		0.5		0.5
0	4	1	GAGCTAAGAA	2317	#DIV/0!		0.3		#DIV/0!
3	2	0	GAGGCTCAA	2318	0.7		0.0		0.0
3	0	2	GATATCTTTA	2319	0.0		#DIV/0!		0.7
2	1	2	GATCCAATCC	2320	0.5		2.0		1.0
5	0	0	GATGACGAAT	2321	0.0		#DIV/0!		0.0
1	1	3	GATGCCCTTT	2322	1.0		3.0		3.0

Table 5, cont.

				#DIV/0!	0.3	0.3	#DIV/0!
0	4	1	GATTCCTAAA	2323			
1	1	3	GATTCTCGAG	2324	1.0	3.0	3.0
2	2	1	GATTGAAGAA	2325	1.0	0.5	0.5
1	2	2	GATTCTCTG	2326	2.0	1.0	2.0
4	1	0	GATTTTGT	2327	0.3	0.0	0.0
3	1	1	GATTTTTAC	2328	0.3	1.0	0.3
2	3	0	GCAGATCTCG	2329	1.5	0.0	0.0
2	1	2	GCCAAGAAC	2330	0.5	2.0	1.0
3	2	0	GCCAATGAC	2331	0.7	0.0	0.0
1	1	3	GCCACTGGTA	2332	1.0	3.0	3.0
5	0	0	GCGGTTCTTA	2333	0.0	#DIV/0!	0.0
1	3	1	GCTCTGGTTA	2334	3.0	0.3	1.0
0	3	2	GCTTGTATA	2335	#DIV/0!	0.7	#DIV/0!
0	1	4	GCGATGTACT	2336	#DIV/0!	4.0	#DIV/0!
1	2	2	GCGCCTTGT	2337	2.0	1.0	2.0
1	2	2	GCGGCTGCTG	2338	2.0	1.0	2.0
2	2	1	GCGTGACGAA	2339	1.0	0.5	0.5
2	1	2	GCTATGTGTA	2340	0.5	2.0	1.0
1	2	2	GCTCCTGAAG	2341	2.0	1.0	2.0
2	3	0	GCTGGGTAT	2342	1.5	0.0	0.0
3	1	1	GCTGTGACT	2343	0.3	1.0	0.3
1	4	0	GCTTGGTGT	2344	4.0	0.0	0.0
2	2	1	GGAAATGACA	2345	1.0	0.5	0.5
0	3	2	GGACCTAAGT	2346	#DIV/0!	0.7	#DIV/0!
3	2	0	GGACCTGTGG	2347	0.7	0.0	0.0
3	1	1	GGAGGGTAA	2348	0.3	1.0	0.3
0	1	4	GGAGTGGCAG	2349	#DIV/0!	4.0	#DIV/0!
1	2	2	GGATCGTCCG	2350	2.0	1.0	2.0

Table 5, cont.

1	3	1	GGATCTTACT	2351	3.0	0.3	1.0
3	1	1	GGATTACTG	2352	0.3	1.0	0.3
2	1	2	GGATTTGTG	2353	0.5	2.0	1.0
1	0	4	GGCAACACIT	2354	0.0	#DIV/0!	4.0
2	1	2	GGGAAACCGG	2355	0.5	2.0	1.0
0	1	4	GGGTATCCCG	2356	#DIV/0!	4.0	#DIV/0!
1	3	1	GGGTGACTAT	2357	3.0	0.3	1.0
1	3	1	GGGTGAGTAA	2358	3.0	0.3	1.0
1	3	1	GGGTGCTAACG	2359	3.0	0.3	1.0
2	1	2	GGTTTGTCT	2360	0.5	2.0	1.0
1	1	3	GGTTTCCCG	2361	1.0	3.0	3.0
1	1	3	GGTAAGCAGT	2362	1.0	3.0	3.0
1	2	2	GGTACATTCA	2363	2.0	1.0	2.0
5	0	0	GGTGAAGT	2364	0.0	#DIV/0!	0.0
1	2	2	GGTGATGAAG	2365	2.0	1.0	2.0
1	1	3	GGTGCTAGGA	2366	1.0	3.0	3.0
4	1	0	GGTGGGGAGG	2367	0.3	0.0	0.0
0	3	2	GGTGTGAAGG	2368	#DIV/0!	0.7	#DIV/0!
2	2	1	GGTGTAAACC	2369	1.0	0.5	0.5
2	2	1	GGTGTAGCG	2370	1.0	0.5	0.5
1	2	2	GGTTAATTAA	2371	2.0	1.0	2.0
1	0	4	GTAAAAAGAAG	2372	0.0	#DIV/0!	4.0
1	4	0	GTAAGAAATC	2373	4.0	0.0	0.0
2	1	2	GTACTTTCTC	2374	0.5	2.0	1.0
1	2	2	GTCAAGGGCC	2375	2.0	1.0	2.0
3	0	2	GTCCACGCCAG	2376	0.0	#DIV/0!	0.7
0	2	3	GTGATGAAGT	2377	#DIV/0!	1.5	#DIV/0!
3	2	0	GTGCAACAAAC	2378	0.7	0.0	0.0

Table 5, cont.

							#DIV/0!	
1	0	4	GTTAACGA	2379	0.0		4.0	
1	1	3	GTTAACTGAT	2380	3.0	0.3	1.0	
3	0	2	GTGGAAAGGG	2381	0.0	#DIV/0!	0.7	
1	2	2	GTTCCTTT	2382	2.0	1.0	2.0	
1	3	1	TAATAACAA	2383	3.0	0.3	1.0	
4	1	0	TAATGTTAG	2384	0.3	0.0	0.0	
2	0	3	TAAGGATGGG	2385	0.0	#DIV/0!	1.5	
3	1	1	TAATGAAAAAC	2386	0.3	1.0	0.3	
2	0	3	TACAAAATTG	2387	0.0	#DIV/0!	1.5	
1	2	2	TACCCCTGCCG	2388	2.0	1.0	2.0	
2	1	2	TACGTTGATG	2389	0.5	2.0	1.0	
1	4	0	TAGAACATA	2390	4.0	0.0	0.0	
2	1	2	TAGCGTATTG	2391	0.5	2.0	1.0	
1	3	1	TAGTAAGTAA	2392	3.0	0.3	1.0	
5	0	0	TAGTTGCTCC	2393	0.0	#DIV/0!	0.0	
2	3	0	TATATATATA	2394	1.5	0.0	0.0	
1	4	0	TATATCAGTG	2395	4.0	0.0	0.0	
1	4	0	TATTTAAAAA	2396	4.0	0.0	0.0	
2	2	1	TATGCCCTAAA	2397	1.0	0.5	0.5	
1	0	4	TATGCTAGCA	2398	0.0	#DIV/0!	4.0	
2	3	0	TATGGAATAA	2399	1.5	0.0	0.0	
3	1	1	TATGGGCAG	2400	0.3	1.0	0.3	
2	2	1	TATTTTGATG	2401	1.0	0.5	0.5	
1	2	2	TCAGAAACAC	2402	2.0	1.0	2.0	
4	0	1	TCAGGTCCAT	2403	0.0	#DIV/0!	0.3	
3	1	1	TCATCATTTG	2404	0.3	1.0	0.3	
4	1	0	TCATCCGTGA	2405	0.3	0.0	0.0	
4	1	0	TCCACCTACT	2406	0.3	0.0	0.0	

Table 5, cont.

0	5	0	TCCCCATTAA	2407	#DIV/0!	0.0	#DIV/0!
4	1	0	TCCCCGTATT	2408	0.3	0.0	0.0
1	3	1	TCCCTATCAA	2409	3.0	0.3	1.0
2	3	0	TCCCTATTGA	2410	1.5	0.0	0.0
2	3	0	TCCCTGTTAA	2411	1.5	0.0	0.0
1	3	1	TCTAGTTCG	2412	3.0	0.3	1.0
0	3	2	TCGTCAATCGG	2413	#DIV/0!	0.7	#DIV/0!
0	3	2	TCTCAATAAC	2414	#DIV/0!	0.7	#DIV/0!
2	1	2	TCTCTAGCTA	2415	0.5	2.0	1.0
2	2	1	TCTGGATTGC	2416	1.0	0.5	0.5
1	2	2	TCTTGAAAAG	2417	2.0	1.0	2.0
0	4	1	TCTGGTATA	2418	#DIV/0!	0.3	#DIV/0!
2	1	2	TGAGTAATC	2419	0.5	2.0	1.0
2	1	2	TGCACAATTG	2420	0.5	2.0	1.0
2	1	2	TGCAGCCTGC	2421	0.5	2.0	1.0
3	1	1	TGCCCTAGGA	2422	0.3	1.0	0.3
2	3	0	TGCTGAACTT	2423	1.5	0.0	0.0
0	3	2	TGGCAAAAAA	2424	#DIV/0!	0.7	#DIV/0!
0	3	2	TGGCAATATG	2425	#DIV/0!	0.7	#DIV/0!
2	0	3	TGGGGAAAGC	2426	0.0	#DIV/0!	1.5
3	1	1	TGGCGTGACA	2427	0.3	1.0	0.3
2	0	3	TGGCTAAC	2428	0.0	#DIV/0!	1.5
2	1	2	TGGGATGTAG	2429	0.5	2.0	1.0
1	2	2	TGGGTTCCAA	2430	2.0	1.0	2.0
1	0	4	TGTAAGACGG	2431	0.0	#DIV/0!	4.0
1	3	1	TGTAGTTCT	2432	3.0	0.3	1.0
2	2	1	TGTTGTGGAG	2433	1.0	0.5	0.5
0	4	1	TTACCGAAGC	2434	#DIV/0!	0.3	#DIV/0!

Table 5, cont.

5	0	0	TTACTTGTAA	2435	0.0	#DIV/0!	0.0
1	1	3	TTAGCATAGT	2436	1.0	3.0	3.0
2	1	2	TTAGTAGCGA	2437	0.5	2.0	1.0
2	1	2	TTAGTTCTAT	2438	0.5	2.0	1.0
2	3	0	TTATGTATTG	2439	1.5	0.0	0.0
2	1	0	TTCAAATTAA	2440	0.3	0.0	0.0
3	2	0	TTCAAGTAGC	2441	0.7	0.0	0.0
0	3	2	TTCCAAAACTA	2442	#DIV/0!	0.7	#DIV/0!
0	3	2	TTCTCTGCCTC	2443	#DIV/0!	0.7	#DIV/0!
2	1	2	TTCGTTTACCC	2444	0.5	2.0	1.0
1	4	0	TTGATCTTAC	2445	4.0	0.0	0.0
1	2	2	TTGCAACCAA	2446	2.0	1.0	2.0
1	1	3	TTGCTAAAGA	2447	1.0	3.0	3.0
2	1	2	TTGGATTGT	2448	0.5	2.0	1.0
0	3	2	TTGGGTAAAA	2449	#DIV/0!	0.7	#DIV/0!
2	3	0	TTTAATAGAG	2450	1.5	0.0	0.0
4	0	1	TTTAATTACG	2451	0.0	#DIV/0!	0.3
3	2	0	TTTCCATCAA	2452	0.7	0.0	0.0
1	1	3	TTTCTTAATCC	2453	1.0	3.0	3.0
1	2	2	TTTGGATTCC	2454	2.0	1.0	2.0
4	0	1	TTTTACGTAT	2455	0.0	#DIV/0!	0.3
2	1	2	TTTGTGAA	2456	0.5	2.0	1.0
2	2	1	TTTTATATAT	2457	1.0	0.5	0.5
2	2	1	TTTTGTATCC	2458	1.0	0.5	0.5
1	4	0	TTTTCGATT	2459	4.0	0.0	0.0
3	1	0	AAAACCTCT	2460	0.3	0.0	0.0
2	2	0	AAAATAAAG	2461	1.0	0.0	0.0
1	3	0	AAAATCCAG	2462	3.0	0.0	0.0

Table 5, cont.

2	1	1	AAAATTTG	2463	0.5	1.0	0.5
1	1	2	AAAAGAAGCT	2464	1.0	2.0	2.0
2	1	1	AAAAGACCGT	2465	0.5	1.0	0.5
1	1	2	AAAAGGTG	2466	1.0	2.0	2.0
2	1	1	AAAAGTTGG	2467	0.5	1.0	0.5
0	3	1	AAAATAGCGA	2468	#DIV/0!	0.3	#DIV/0!
4	0	0	AAAATATGGT	2469	0.0	#DIV/0!	0.0
2	1	1	AAACTTGT	2470	0.5	1.0	0.5
2	2	0	AAAGAAATT	2471	1.0	0.0	0.0
2	0	2	AAAGAATT	2472	0.0	#DIV/0!	1.0
1	1	2	AAAGACCCAT	2473	1.0	2.0	2.0
1	1	2	AAAGGTTAAG	2474	1.0	2.0	2.0
1	1	2	AAAGTTCAAG	2475	1.0	2.0	2.0
1	2	1	AAATAGGAAT	2476	2.0	0.5	1.0
2	2	0	AAATCACAGG	2477	1.0	0.0	0.0
1	1	2	AAATTATCAC	2478	1.0	2.0	2.0
3	0	1	AAATTGAAC	2479	0.0	#DIV/0!	0.3
2	1	1	AAATTGAGA	2480	0.5	1.0	0.5
1	0	3	AACAAGATG	2481	0.0	#DIV/0!	3.0
0	2	2	AACATAGGCC	2482	#DIV/0!	1.0	#DIV/0!
1	1	2	AACATTACA	2483	1.0	2.0	2.0
3	1	0	AACCAAAAAA	2484	0.3	0.0	0.0
2	1	1	AACGCTTCGA	2485	0.5	1.0	0.5
1	0	3	AAGGGAAT	2486	0.0	#DIV/0!	3.0
3	1	0	AACTACTTGA	2487	0.3	0.0	0.0
1	1	2	AACTCTGCCT	2488	1.0	2.0	2.0
1	2	1	AACTGTACTA	2489	2.0	0.5	1.0
2	0	2	AAGAAGGGTT	2490	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	3	AAGAGCTTT	2491	#DIV/0!	3.0	#DIV/0!
0	0	4	AAGATAGCAA	2492	#DIV/0!	#DIV/0!	#DIV/0!
3	0	1	AAGATTCCAT	2493	0.0	#DIV/0!	0.3
3	0	1	AAGCCAGCCG	2494	0.0	#DIV/0!	0.3
2	0	2	AAGGCAGAAA	2495	0.0	#DIV/0!	1.0
0	3	1	AAGGCTATCA	2496	#DIV/0!	0.3	#DIV/0!
2	2	0	AAGTACTGAA	2497	1.0	0.0	0.0
1	1	2	AAGTTAGGAA	2498	1.0	2.0	2.0
1	2	1	AAGTTCATAA	2499	2.0	0.5	1.0
2	2	0	AAGTTGTAA	2500	1.0	0.0	0.0
2	2	0	AAGTTTTAG	2501	1.0	0.0	0.0
1	2	1	AATACCTAA	2502	2.0	0.5	1.0
2	1	1	AATCTATGG	2503	0.5	1.0	0.5
0	3	1	AATCTTATAA	2504	#DIV/0!	0.3	#DIV/0!
1	3	0	AATTATACAG	2505	3.0	0.0	0.0
3	1	0	AATTACACATT	2506	0.3	0.0	0.0
0	0	4	AATTGCCACC	2507	#DIV/0!	#DIV/0!	#DIV/0!
0	4	0	AATTCTCCA	2508	#DIV/0!	0.0	#DIV/0!
1	1	2	AATTGTAC	2509	1.0	2.0	2.0
3	0	1	AATTTTGAT	2510	0.0	#DIV/0!	0.3
2	2	0	ACAACAAAAAA	2511	1.0	0.0	0.0
0	2	2	ACAACAACTA	2512	#DIV/0!	1.0	#DIV/0!
1	3	0	ACAATTTCAT	2513	3.0	0.0	0.0
0	3	1	ACACCAAGAG	2514	#DIV/0!	0.3	#DIV/0!
1	3	0	ACAGGGGAGG	2515	3.0	0.0	0.0
0	2	2	ACCACTGGTG	2516	#DIV/0!	1.0	#DIV/0!
1	1	2	ACCAGGGITCC	2517	1.0	2.0	2.0
2	1	1	ACCCCTGTCT	2518	0.5	1.0	0.5

Table 5, cont.

					#DIV/0!				#DIV/0!
0	3	1	ACCTTACCGT	2519		0.3			
1	2	1	ACGAGAGGAG	2520	2.0	0.5			1.0
4	0	0	ACGCTCCCAA	2521	0.0		#DIV/0!		0.0
0	2	2	ACGGAGATGA	2522	#DIV/0!	1.0			#DIV/0!
0	4	0	ACGTTCAGCA	2523	#DIV/0!	0.0			#DIV/0!
0	3	1	ACGTTTTTA	2524	#DIV/0!	0.3			#DIV/0!
0	4	0	ACTAAGCCAG	2525	#DIV/0!		#DIV/0!		#DIV/0!
0	4	0	ACTCACCTAC	2526	#DIV/0!	0.0			#DIV/0!
1	3	0	ACTGATGCTT	2527	3.0	0.0			0.0
2	0	2	ACTTCGATGA	2528	0.0		#DIV/0!		1.0
2	2	0	AGAAACAGGA	2529	1.0	0.0			0.0
0	3	1	AGAAATGGGT	2530	#DIV/0!	0.3			#DIV/0!
1	0	3	AGAACAAAAG	2531	0.0		#DIV/0!		3.0
3	0	1	AGAACAGCAA	2532	0.0		#DIV/0!		0.3
2	1	1	AGACACGAAA	2533	0.5	1.0			0.5
1	2	1	AGACTCATCC	2534	2.0	0.5			1.0
0	0	4	AGAGACATTG	2535	#DIV/0!		#DIV/0!		#DIV/0!
1	3	0	AGAGAGGCC	2536	3.0	0.0			0.0
1	1	2	AGAGGAAGTA	2537	1.0	2.0			2.0
3	1	0	AGATGGCGGA	2538	0.3	0.0			0.0
2	0	2	AGCATCGGTG	2539	0.0		#DIV/0!		1.0
2	0	2	AGCCGAGATA	2540	0.0		#DIV/0!		1.0
1	1	2	AGGAAWAGAA	2541	1.0	2.0			2.0
0	3	1	AGGACAAGGA	2542	#DIV/0!	0.3			#DIV/0!
0	3	1	AGGTCAAGACA	2543	#DIV/0!	0.3			#DIV/0!
0	1	3	AGGTGACAAT	2544	#DIV/0!	3.0			#DIV/0!
1	2	1	AGGTTTATCT	2545	2.0	0.5			1.0
2	1	1	AGTATCATAAC	2546	0.5	1.0			0.5

Table 5, cont.

					#DIV/0!			
0	3	1	AGTCATCAA	2547		0.3		#DIV/0!
3	1	0	AGTCGGAGT	2548	0.3	0.0		0.0
2	2	0	AGTCGTGCA	2549	1.0	0.0		0.0
1	3	0	ATAAACGTT	2550	3.0	0.0		0.0
2	2	0	ATAATCATTC	2551	1.0	0.0		0.0
1	1	2	ATAGCCGAGT	2552	1.0	2.0		2.0
3	0	1	ATAGGATATA	2553	0.0	#DIV/0!		0.3
2	2	0	ATATAAATT	2554	1.0	0.0		0.0
2	2	0	ATATAGCTAC	2555	1.0	0.0		0.0
0	0	4	ATATAGCTGC	2556	#DIV/0!	#DIV/0!		#DIV/0!
3	1	0	ATATTTATT	2557	0.3	0.0		0.0
3	1	0	ATATTTCGT	2558	0.3	0.0		0.0
1	1	2	ATCCACTTGC	2559	1.0	2.0		2.0
1	2	1	ATCCTATTT	2560	2.0	0.5		1.0
1	0	3	ATCGCTGGTA	2561	0.0	#DIV/0!		3.0
2	1	1	ATCGTCCACC	2562	0.5	1.0		0.5
2	0	2	ATGAAAAATC	2563	0.0	#DIV/0!		1.0
3	0	1	ATGAATCCGT	2564	0.0	#DIV/0!		0.3
1	3	0	ATGACATTCA	2565	3.0	0.0		0.0
1	1	2	ATGGATATAT	2566	1.0	2.0		2.0
2	2	0	ATGGATGGAT	2567	1.0	0.0		0.0
0	0	4	ATGGGCTTCA	2568	#DIV/0!	#DIV/0!		#DIV/0!
1	2	1	ATGGTGTGGC	2569	2.0	0.5		1.0
3	1	0	ATTAAXAAA	2570	0.3	0.0		0.0
0	4	0	ATTCGCAGAT	2571	#DIV/0!	0.0		#DIV/0!
1	0	3	ATTCTTCAGA	2572	0.0	#DIV/0!		3.0
1	2	1	ATTGATGCTT	2573	2.0	0.5		1.0
1	3	0	ATTGGCAGAT	2574	3.0	0.0		0.0

Table 5, cont.

4	0	0	ATTTGATTTC	2575	0.0	#DIV/0!	0.0
1	2	1	ATTTTGAGC	2576	2.0	0.5	1.0
0	2	2	CAAACCCAC	2577	#DIV/0!	1.0	#DIV/0!
2	0	2	CAAAATTAAC	2578	0.0	#DIV/0!	1.0
0	2	2	CAAGCATCCA	2579	#DIV/0!	1.0	#DIV/0!
1	1	2	CAATGGCTGA	2580	1.0	2.0	2.0
0	2	2	CAATTCCGAG	2581	#DIV/0!	1.0	#DIV/0!
1	2	1	CACAAGAAAA	2582	2.0	0.5	1.0
1	3	0	CACATATAGC	2583	3.0	0.0	0.0
0	2	2	CACATCATAA	2584	#DIV/0!	1.0	#DIV/0!
1	3	0	CACTGTATAA	2585	3.0	0.0	0.0
1	0	3	CAGAAATGCG	2586	0.0	#DIV/0!	3.0
1	1	2	CAGAAGGTCA	2587	1.0	2.0	2.0
1	1	2	CAGACAAAGT	2588	1.0	2.0	2.0
1	3	0	CAGCTCAAGC	2589	3.0	0.0	0.0
0	3	1	CAGGATACCA	2590	#DIV/0!	0.3	#DIV/0!
0	4	0	CAGTAATGTT	2591	#DIV/0!	0.0	#DIV/0!
3	1	0	CAGTGATGCA	2592	0.3	0.0	0.0
3	1	0	CATAATAATT	2593	0.3	0.0	0.0
3	1	0	CATATAAAA	2594	0.3	0.0	0.0
1	1	2	CATCTTACCC	2595	1.0	2.0	2.0
2	1	1	CATTGAAGC	2596	0.5	1.0	0.5
1	3	0	CCAAAAAAA	2597	3.0	0.0	0.0
0	1	3	CCAATGATGA	2598	#DIV/0!	3.0	#DIV/0!
2	0	2	CCACAACTGA	2599	0.0	#DIV/0!	1.0
0	2	2	CCACTACCGT	2600	#DIV/0!	1.0	#DIV/0!
0	4	0	CCACTTTGGT	2601	#DIV/0!	0.0	#DIV/0!
2	2	0	CCAGAAGATG	2602	1.0	0.0	0.0

Table 5, cont.

1	3	0	CCATACTGGAA	2603	3.0	0.0	0.0
2	1	1	CCATCTTAAG	2604	0.5	1.0	0.5
1	1	2	CCCAGATAA	2605	1.0	2.0	2.0
2	1	1	CCCCAAAAAA	2606	0.5	1.0	0.5
1	3	0	CCCTTCTGTA	2607	3.0	0.0	0.0
1	2	1	CCGTGAGAG	2608	2.0	0.5	1.0
2	1	1	CCTAAATACT	2609	0.5	1.0	0.5
0	3	1	CCTATTGAG	2610	#DIV/0!	0.3	#DIV/0!
1	2	1	CCTCTTCTCC	2611	2.0	0.5	1.0
0	4	0	CCTGAAGAAA	2612	#DIV/0!	0.0	#DIV/0!
1	1	2	CCTGCAATGG	2613	1.0	2.0	2.0
1	2	1	CCTTCACTGC	2614	2.0	0.5	1.0
1	1	2	CCTTGAACTA	2615	1.0	2.0	2.0
0	1	3	CCTTTCATT	2616	#DIV/0!	3.0	#DIV/0!
0	3	1	CGAAAAGGCT	2617	#DIV/0!	0.3	#DIV/0!
2	1	1	CGAAACTAAA	2618	0.5	1.0	0.5
1	3	0	CGATTCAAGTT	2619	3.0	0.0	0.0
1	0	3	CGCAACTGGT	2620	0.0	#DIV/0!	3.0
1	1	2	CGCACGGTA	2621	1.0	2.0	2.0
3	1	0	CGGGCGAATT	2622	0.3	0.0	0.0
0	1	3	CGGGTTCGAA	2623	#DIV/0!	3.0	#DIV/0!
1	1	2	CGGGGGTTCT	2624	1.0	2.0	2.0
0	2	2	CGGGTAGAT	2625	#DIV/0!	1.0	#DIV/0!
1	1	2	CGGCTGAGGA	2626	1.0	2.0	2.0
1	1	2	CGGTACCAA	2627	1.0	2.0	2.0
0	2	2	CGTGCAGCTC	2628	#DIV/0!	1.0	#DIV/0!
1	1	2	CGTGTATTT	2629	1.0	2.0	2.0
0	0	4	CGTTCTACTA	2630	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

2	0	2	CTAAAGAATG	2631	0.0	#DIV/0!	1.0
1	1	2	CTAGCAGCTA	2632	1.0	2.0	2.0
1	2	1	CTAGGTCCCTA	2633	2.0	0.5	1.0
3	1	0	CTAGTTCTTA	2634	0.3	0.0	0.0
2	0	2	CTCACACAAAT	2635	0.0	#DIV/0!	1.0
0	4	0	CTCATTGAAA	2636	#DIV/0!	0.0	#DIV/0!
3	1	0	CTCTACTGCC	2637	0.3	0.0	0.0
1	2	1	CTCTATTGC	2638	2.0	0.5	1.0
1	0	3	CTCTGCCCC	2639	0.0	#DIV/0!	3.0
1	1	2	CTGAAAAAGT	2640	1.0	2.0	2.0
0	2	2	CTGAAGCAGA	2641	#DIV/0!	1.0	#DIV/0!
2	2	0	CTGAGTACAA	2642	1.0	0.0	0.0
2	2	0	CTGCCAGTCT	2643	1.0	0.0	0.0
2	2	0	CTTACTGCAA	2644	1.0	0.0	0.0
2	0	2	CTTAGGGCGG	2645	0.0	#DIV/0!	1.0
1	3	0	CTTCCTTGA	2646	3.0	0.0	0.0
1	2	1	CTTGATGTG	2647	2.0	0.5	1.0
2	2	0	CTTTATTTT	2648	1.0	0.0	0.0
1	3	0	CTTGTTCACA	2649	3.0	0.0	0.0
2	1	1	GAAAAATACT	2650	0.5	1.0	0.5
2	1	1	GAAAAGCAGG	2651	0.5	1.0	0.5
0	1	3	GAAAAGGTCA	2652	#DIV/0!	3.0	#DIV/0!
0	2	2	GAAACCCAGG	2653	#DIV/0!	1.0	#DIV/0!
0	2	2	GAAAGAAGAC	2654	#DIV/0!	1.0	#DIV/0!
2	1	1	GAAAGCAACG	2655	0.5	1.0	0.5
1	2	1	GAAATAACTG	2656	2.0	0.5	1.0
1	2	1	GAACAGATTT	2657	2.0	0.5	1.0
0	1	3	GAACTCCACA	2658	#DIV/0!	3.0	#DIV/0!

Table 5, cont.

1	0	3	GAAGACGGTG	2659	0.0	#DIV/0!	3.0
2	2	0	GAAGCCTGTT	2660	1.0	0.0	0.0
1	2	1	GAAGGTCTGGT	2661	2.0	0.5	1.0
1	2	1	GAAGTAGAAG	2662	2.0	0.5	1.0
0	1	3	GAAGTATTGA	2663	#DIV/0!	3.0	#DIV/0!
2	1	1	GAATACTGG	2664	0.5	1.0	0.5
2	0	2	GAATGCAGCT	2665	0.0	#DIV/0!	1.0
2	0	2	GAATTGAGGG	2666	0.0	#DIV/0!	1.0
2	0	2	GAATTGGAGA	2667	0.0	#DIV/0!	1.0
2	0	2	GAATTGTTT	2668	0.0	#DIV/0!	1.0
1	0	3	GACAAGAAGA	2669	0.0	#DIV/0!	3.0
3	1	0	GACATAGAAC	2670	0.3	0.0	0.0
2	2	0	GACGAGCACA	2671	1.0	0.0	0.0
2	0	2	GACGGGTGACA	2672	0.0	#DIV/0!	1.0
0	2	2	GACTTAACCA	2673	#DIV/0!	1.0	#DIV/0!
2	0	2	GAGACAAACT	2674	0.0	#DIV/0!	1.0
3	0	1	GAGAGTAAGA	2675	0.0	#DIV/0!	0.3
0	4	0	GAGGACTTAA	2676	#DIV/0!	0.0	#DIV/0!
1	0	3	GAGGCCAACG	2677	0.0	#DIV/0!	3.0
0	0	4	GAGTTTGGCC	2678	#DIV/0!	1.0	#DIV/0!
1	2	1	GATACCAAG	2679	2.0	0.5	1.0
2	0	2	GATCAGGGTA	2680	0.0	#DIV/0!	1.0
0	2	2	GATCAGTGTG	2681	#DIV/0!	1.0	#DIV/0!
2	1	1	GATGAATTCA	2682	0.5	1.0	0.5
3	1	0	GCAAATGGAA	2683	0.3	0.0	0.0
0	2	2	GCAAAGCCCTC	2684	#DIV/0!	1.0	#DIV/0!
3	0	1	GCACCAAAAGA	2685	0.0	#DIV/0!	0.3
0	1	3	GCACCGGGCG	2686	#DIV/0!	3.0	#DIV/0!

Table 5, cont.

Table 5, cont.

					#DIV/0!	3.0	#DIV/0!
0	1	3	GGCAACAGCA	2715	#DIV/0!	1.0	0.5
2	1	1	GGCAAGATTG	2716	0.5	1.0	0.5
4	0	0	GGCAAGTAGC	2717	0.0	#DIV/0!	0.0
2	2	0	GGCAGTTTAC	2718	1.0	0.0	0.0
2	0	2	GGCATACAAT	2719	0.0	#DIV/0!	0.0
1	1	2	GGCGAGCGAA	2720	1.0	2.0	1.0
3	0	1	GGGGATAACG	2721	0.0	#DIV/0!	2.0
1	2	1	GGGGCTGCAA	2722	2.0	0.5	0.3
1	1	2	GGGTTGGTT	2723	1.0	2.0	1.0
2	0	2	GGGCCTCTGA	2724	0.0	#DIV/0!	2.0
0	4	0	GGGTAGTACT	2725	#DIV/0!	0.0	1.0
2	1	1	GGGGTTCGGT	2726	0.5	1.0	0.5
1	1	2	GGGGTTTGGT	2727	1.0	2.0	2.0
0	2	2	GGTAATGCTA	2728	#DIV/0!	1.0	#DIV/0!
0	2	2	GGTATATTCA	2729	#DIV/0!	1.0	#DIV/0!
1	1	2	GGTCAGTAAA	2730	1.0	2.0	#DIV/0!
2	1	1	GGTCGGGGCTT	2731	0.5	1.0	2.0
2	2	0	GGTAAAAACCG	2732	1.0	0.0	0.5
1	1	2	GGTGACATAC	2733	1.0	2.0	0.0
2	1	1	GGTGCTAAGG	2734	0.5	1.0	2.0
2	0	2	GGTGCTTCCG	2735	0.0	#DIV/0!	0.5
0	1	3	GGTTAGTCGG	2736	#DIV/0!	3.0	1.0
1	0	3	GGTTACCAA	2737	0.0	#DIV/0!	#DIV/0!
0	2	2	GTACCCTCC	2738	#DIV/0!	1.0	3.0
2	1	1	GTACGGCTGTG	2739	0.5	1.0	0.5
1	2	1	GTACTATTT	2740	2.0	0.5	1.0
2	1	1	GTACCTGGTGC	2741	0.5	1.0	0.5
1	2	1	GTAGCAGCAA	2742	2.0	0.5	1.0

Table 5, cont.

1	2	1	GTATAATAAA	2743	2.0	0.5	1.0
2	2	0	GTATTTGAA	2744	1.0	0.0	0.0
2	1	1	GTATTTTGC	2745	0.5	1.0	0.5
0	2	2	GTCCATAATA	2746	#DIV/0!	1.0	#DIV/0!
4	0	0	GTCCCATCCTG	2747	0.0	#DIV/0!	0.0
1	2	1	GTCGTGGGT	2748	2.0	0.5	1.0
1	2	1	GTCTACTCTT	2749	2.0	0.5	1.0
1	1	2	GTCTCCCTGT	2750	1.0	2.0	2.0
3	0	1	GTGAAGGATA	2751	0.0	#DIV/0!	0.3
0	2	2	GTGAGGAGAA	2752	#DIV/0!	1.0	#DIV/0!
1	1	2	GTGATAGTCT	2753	1.0	2.0	2.0
0	3	1	GTGCCGCTGG	2754	#DIV/0!	0.3	#DIV/0!
1	0	3	GTGGCAGCTT	2755	0.0	#DIV/0!	3.0
2	2	0	GTGGTATCAC	2756	1.0	0.0	0.0
3	0	1	GTGGTTACT	2757	0.0	#DIV/0!	0.3
1	1	2	GTGGTGAAT	2758	1.0	2.0	2.0
2	1	1	GTAAATACA	2759	0.5	1.0	0.5
3	1	0	GTATCCCAA	2760	0.3	0.0	0.0
1	2	1	GTCAAAACCG	2761	2.0	0.5	1.0
1	0	3	GTTCACCCAC	2762	0.0	#DIV/0!	3.0
2	1	1	GTTCGATATT	2763	0.5	1.0	0.5
0	2	2	GTTCGCACC	2764	#DIV/0!	1.0	#DIV/0!
0	3	1	GTTCGGATC	2765	#DIV/0!	0.3	#DIV/0!
0	2	2	GTTCGGCTT	2766	#DIV/0!	1.0	#DIV/0!
0	2	2	GTGGAGAAC	2767	#DIV/0!	1.0	#DIV/0!
3	0	1	GTGGTCAGG	2768	0.0	#DIV/0!	0.3
4	0	0	GTAGGTAC	2769	0.0	#DIV/0!	0.0
2	1	1	GTTCCTAAA	2770	0.5	1.0	0.5

Table 5, cont.

2	2	0	GTTTGACCTT	2771	1.0	0.0	0.0
1	0	3	GTTTTAGCTT	2772	0.0	#DIV/0!	3.0
2	1	1	TAAAGATCTA	2773	0.5	1.0	0.5
0	2	2	TAACCCAGTCT	2774	#DIV/0!	1.0	#DIV/0!
1	2	1	TAACGGGCTAG	2775	2.0	0.5	1.0
1	2	1	TAACCTCGTAT	2776	2.0	0.5	1.0
3	0	1	TAAGACAAA	2777	0.0	#DIV/0!	1.0
0	2	2	TAGAAACCAG	2778	#DIV/0!	1.0	0.3
1	2	1	TAGATTAACG	2779	2.0	0.5	#DIV/0!
1	1	2	TAGGGCAACC	2780	1.0	2.0	1.2.0
1	2	1	TAGGAACAT	2781	2.0	0.5	1.0
2	2	0	TAGTTTGTG	2782	1.0	0.0	0.0
3	0	1	TATAACTAGT	2783	0.0	#DIV/0!	0.3
0	2	2	TATAGGTAC	2784	#DIV/0!	1.0	#DIV/0!
0	3	1	TATATTAATT	2785	#DIV/0!	0.3	#DIV/0!
2	1	1	TATATTTTC	2786	0.5	1.0	0.5
0	4	0	TATACCATA	2787	#DIV/0!	0.0	#DIV/0!
2	0	2	TATCTTAGAC	2788	0.0	#DIV/0!	1.0
2	2	0	TATCTTTTG	2789	1.0	0.0	0.0
1	1	2	TATGTCGGT	2790	1.0	2.0	2.0
2	2	0	TATGGTTGCA	2791	1.0	0.0	0.0
1	3	0	TATTAGTTGG	2792	3.0	0.0	0.0
3	1	0	TCAAAAAAAA	2793	0.3	0.0	0.0
1	3	0	TCAAATTGTT	2794	3.0	0.0	0.0
2	0	2	TCAAGAAGAT	2795	0.0	#DIV/0!	1.0
2	0	2	TCAATGAAAT	2796	0.0	#DIV/0!	1.0
1	3	0	TCATTCATAC	2797	3.0	0.0	0.0
0	2	2	TCCAAAAGTT	2798	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

4	0	0	TCCATACCTG	2799	0.0	#DIV/0!	0.0
0	4	0	TCCTTAATTAA	2800	0.0	#DIV/0!	#DIV/0!
2	1	1	TCGGCTTCAT	2801	0.5	1.0	0.5
2	1	1	TGATTCTGG	2802	0.5	1.0	0.5
0	2	2	TCGGAGACC	2803	#DIV/0!	1.0	#DIV/0!
1	1	2	TCTGGAGACA	2804	1.0	2.0	2.0
1	0	3	TCTGTGAAA	2805	0.0	#DIV/0!	3.0
3	0	1	TCTGTTGACG	2806	0.0	#DIV/0!	0.3
0	1	3	TCTTGAGATC	2807	#DIV/0!	3.0	#DIV/0!
1	0	3	TCTGGATGC	2808	0.0	#DIV/0!	3.0
1	1	2	TCTTGGAA	2809	1.0	2.0	2.0
2	0	2	TGAAAAAAA	2810	0.0	#DIV/0!	1.0
0	3	1	TGAACATCTA	2811	#DIV/0!	0.3	#DIV/0!
1	0	3	TGAACATTGT	2812	0.0	#DIV/0!	3.0
1	3	0	TGAACCTATA	2813	3.0	0.0	0.0
0	3	1	TGCAGGTCCCT	2814	#DIV/0!	0.3	#DIV/0!
2	2	0	TGCCACTCCT	2815	1.0	0.0	0.0
0	0	4	TGGCGATA	2816	#DIV/0!	#DIV/0!	#DIV/0!
2	1	1	TGGACTTGGAA	2817	0.5	1.0	0.5
0	3	1	TGCCAGTCT	2818	#DIV/0!	0.3	#DIV/0!
0	1	3	TGGTGGTCT	2819	#DIV/0!	3.0	#DIV/0!
2	2	0	TGGTCAGCG	2820	1.0	0.0	0.0
0	4	0	TGTAACCTGG	2821	#DIV/0!	0.0	#DIV/0!
2	1	1	TGTACGTTGT	2822	0.5	1.0	0.5
2	1	1	TGTGACGGAG	2823	0.5	1.0	0.5
1	0	3	TGTGATAAAA	2824	0.0	#DIV/0!	3.0
1	0	3	TGTCAAGTG	2825	0.0	#DIV/0!	3.0
1	3	0	TGTTCTAATA	2826	3.0	0.0	0.0

Table 5, cont.

2	0	2	TTAAATCTGA	2827	0.0	#DIV/0!	1.0
2	0	2	TTAAGTGTGC	2828	0.0	#DIV/0!	1.0
3	0	1	TTAAGTTCTT	2829	0.0	#DIV/0!	0.3
1	1	2	TTACCACCAA	2830	2.0	0.5	1.0
1	1	2	TTAGATAAT	2831	2.0	0.5	1.0
2	1	1	TTAGTGAAGG	2832	0.5	1.0	0.5
2	1	1	TTATAAGGGAG	2833	0.5	1.0	0.5
2	2	0	TTATACATTG	2834	1.0	0.0	0.0
2	2	0	TTATTGAGTT	2835	1.0	0.0	0.0
1	1	2	TTATTGTTT	2836	1.0	2.0	2.0
2	1	1	TTATTTCAAG	2837	0.5	1.0	0.5
4	0	0	TTATTTGCAA	2838	0.0	#DIV/0!	0.0
0	2	2	TTCAAGTCAC	2839	#DIV/0!	1.0	#DIV/0!
1	3	0	TTCATACAGC	2840	3.0	0.0	0.0
1	0	3	TTCCCAAGTT	2841	0.0	#DIV/0!	3.0
2	1	1	TTCCGAAGGA	2842	0.5	1.0	0.5
1	3	0	TTCGATATGG	2843	3.0	0.0	0.0
0	4	0	TTCTCACAAAT	2844	#DIV/0!	0.0	#DIV/0!
1	1	2	TTGATGATGA	2845	1.0	2.0	2.0
1	1	2	TTGCAATTG	2846	1.0	2.0	2.0
2	1	1	TTGGACTTAC	2847	0.5	1.0	0.5
1	2	1	TTGGGAATGG	2848	2.0	0.5	1.0
1	1	2	TTGTCAACCA	2849	1.0	2.0	2.0
1	1	2	TTTAACCTCTT	2850	1.0	2.0	2.0
1	1	2	TTTCAGGCAA	2851	1.0	2.0	2.0
2	0	2	TTTCAATCA	2852	0.0	#DIV/0!	1.0
1	0	3	TTTCTAAGCG	2853	0.0	#DIV/0!	3.0
2	1	1	TTTCTCAAAA	2854	0.5	1.0	0.5

Table 5, cont.

1	3	0	TTTCTCTTTG	2855	3.0	0.0	0.0
2	1	1	TTGGTGGTT	2856	0.5	1.0	0.5
0	1	3	TTTGTGGTT	2857	#DIV/0!	3.0	#DIV/0!
1	3	0	TTTACAGTG	2858	3.0	0.0	0.0
1	3	0	TTTACTAGC	2859	3.0	0.0	0.0
0	4	0	TTTTATTT	2860	#DIV/0!	0.0	#DIV/0!
0	3	1	TTTCCACGG	2861	#DIV/0!	0.3	#DIV/0!
0	1	2	AAAAAAAGCA	2862	#DIV/0!	2.0	#DIV/0!
0	1	2	AAAACACCTG	2863	#DIV/0!	2.0	#DIV/0!
1	0	2	AAAACCTACG	2864	0.0	#DIV/0!	2.0
3	0	0	AAAACCTTCAG	2865	0.0	#DIV/0!	0.0
1	2	0	AAAAGAAAAA	2866	2.0	0.0	0.0
0	2	1	AAAAGGGAAA	2867	#DIV/0!	0.5	#DIV/0!
2	1	0	AAAAGTCATT	2868	0.5	0.0	0.0
2	1	0	AAAATATTAG	2869	0.5	0.0	0.0
0	1	2	AAAATGAATG	2870	#DIV/0!	2.0	#DIV/0!
1	1	1	AAACAGCTTT	2871	1.0	1.0	1.0
2	1	0	AAACCTGACA	2872	0.5	0.0	0.0
0	1	2	AAACTGTTGT	2873	#DIV/0!	2.0	#DIV/0!
1	1	1	AAAGAAAAAGA	2874	1.0	1.0	1.0
1	0	2	AAAGAACAAAT	2875	0.0	#DIV/0!	2.0
2	1	0	AAAGAACATGCC	2876	0.5	0.0	0.0
1	2	0	AAAGACAAATG	2877	2.0	0.0	0.0
1	2	0	AAAGACACCG	2878	2.0	0.0	0.0
0	2	1	AAAGCTGATA	2879	#DIV/0!	0.5	#DIV/0!
0	2	1	AAAGGAATCT	2880	#DIV/0!	0.5	#DIV/0!
1	2	0	AAAGGCATT	2881	2.0	0.0	0.0
2	1	0	AAAGTCCAAG	2882	0.5	0.0	0.0

Table 5, cont.

1	1	AAATCAAAAC	2883	1.0	1.0	1.0
0	1	AAATGGGATT	2884	#DIV/0!	2.0	#DIV/0!
1	2	AAATGGGTGC	2885	2.0	0.0	0.0
2	0	AAATCAATT	2886	0.0	#DIV/0!	0.5
1	2	AAATTTAGTA	2887	2.0	0.0	0.0
1	0	AAATTTGAAG	2888	0.0	#DIV/0!	2.0
0	2	AAATTTTGTG	2889	#DIV/0!	0.5	#DIV/0!
1	1	AACAAACACC	2890	1.0	1.0	1.0
1	0	AACAAAGCATC	2891	0.0	#DIV/0!	2.0
1	1	AACAGAAACA	2892	1.0	1.0	1.0
1	2	AACAGTATCA	2893	2.0	0.0	0.0
0	1	AACATCAAGG	2894	#DIV/0!	2.0	#DIV/0!
2	0	AACCAATCTT	2895	0.0	#DIV/0!	0.5
1	1	AACCACTCCT	2896	1.0	1.0	1.0
0	1	AACCCATTG	2897	#DIV/0!	2.0	#DIV/0!
1	0	AACCGGTTAG	2898	0.0	#DIV/0!	2.0
0	2	AACGAAATCT	2899	#DIV/0!	0.5	#DIV/0!
2	0	AACGACGAAAG	2900	0.0	#DIV/0!	0.5
0	1	AACGAGGATG	2901	#DIV/0!	2.0	#DIV/0!
2	1	AACGGTGGTG	2902	0.5	0.0	0.0
0	2	AACTACTCTT	2903	#DIV/0!	0.5	#DIV/0!
1	2	AACTCGCAA	2904	2.0	0.0	0.0
2	0	AACTTCGTCA	2905	0.0	#DIV/0!	0.5
1	1	AAGAAAAAAG	2906	1.0	1.0	1.0
2	1	AAGAACGGC	2907	0.5	0.0	0.0
1	2	AAGAACGGCAT	2908	2.0	0.0	0.0
0	0	AAGAAGAAGC	2909	#DIV/0!	#DIV/0!	#DIV/0!
1	1	AAGAGAAAT	2910	1.0	1.0	1.0

Table 5, cont.

0	3	0	AAGAGTACTT	2911	#DIV/0!	0.0	#DIV/0!
1	0	2	AAGATCAACG	2912	0.0	#DIV/0!	2.0
2	0	1	AAGATCCAGA	2913	0.0	#DIV/0!	0.5
1	1	1	AAGCTGGAGA	2914	1.0	1.0	1.0
1	0	2	AAGGATTATT	2915	0.0	#DIV/0!	2.0
3	0	0	AAGGTACTTA	2916	0.0	#DIV/0!	0.0
3	0	0	AAGTCATTAA	2917	0.0	#DIV/0!	0.0
2	1	0	AAGTCTTTGA	2918	0.5	0.0	0.0
0	1	2	AAGTTAGCAA	2919	#DIV/0!	2.0	#DIV/0!
1	0	2	AAGTTATTGT	2920	0.0	#DIV/0!	2.0
1	2	0	AATAGCCGGA	2921	2.0	0.0	0.0
1	0	2	AATATGAAGT	2922	0.0	#DIV/0!	2.0
2	1	0	AATCCGATAT	2923	0.5	0.0	0.0
1	1	1	AATCCTTGTG	2924	1.0	1.0	1.0
0	2	1	AATCGAGCC	2925	#DIV/0!	0.5	#DIV/0!
0	0	3	AATCGCTAGA	2926	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	AATCTTGAGA	2927	1.0	1.0	1.0
1	2	0	AATGAGGACA	2928	2.0	0.0	0.0
0	1	2	AATGCCATT	2929	#DIV/0!	2.0	#DIV/0!
2	1	0	AATGCTAAAA	2930	0.5	0.0	0.0
1	2	0	AATGCTTCAG	2931	2.0	0.0	0.0
2	1	0	AATGGTGGCT	2932	0.5	0.0	0.0
2	0	1	AATGGACGT	2933	0.0	#DIV/0!	0.5
1	2	0	AATTAAAAGT	2934	2.0	0.0	0.0
0	2	1	AATTAACACC	2935	#DIV/0!	0.5	#DIV/0!
0	3	0	AATTGAAATG	2936	#DIV/0!	0.0	#DIV/0!
2	1	0	AATTGCATA	2937	0.5	0.0	0.0
0	2	1	AATTGACGAA	2938	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

2	1	0	AATTGGACGA	2939	0.5	0.0	0.0
0	1	2	AATTGGCAGA	2940	#DIV/0!	2.0	#DIV/0!
2	1	0	AATTTTATT	2941	0.5	0.0	0.0
0	2	1	ACAAAAAGATG	2942	#DIV/0!	0.5	#DIV/0!
1	0	2	ACAAGTCTTG	2943	0.0	#DIV/0!	2.0
0	1	2	ACAAGTTGAA	2944	#DIV/0!	2.0	#DIV/0!
1	2	0	ACAATTATT	2945	2.0	0.0	0.0
1	1	1	ACACCAAGCC	2946	1.0	1.0	1.0
0	3	0	ACACCTCCAT	2947	#DIV/0!	0.0	#DIV/0!
2	0	1	ACACGAATGG	2948	0.0	#DIV/0!	0.5
2	1	0	ACACGTACTG	2949	0.5	0.0	0.0
0	1	2	ACACGTGAGG	2950	#DIV/0!	2.0	#DIV/0!
1	1	1	ACAGCTTTT	2951	1.0	1.0	1.0
1	0	2	ACAGGGCGTA	2952	0.0	#DIV/0!	2.0
1	1	1	ACAGTGCCTG	2953	1.0	1.0	1.0
0	3	0	ACATACGAAA	2954	#DIV/0!	0.0	#DIV/0!
2	1	0	ACCAATAACT	2955	0.5	0.0	0.0
3	0	0	ACCCCTGGTG	2956	0.0	#DIV/0!	0.0
2	1	0	ACCTATTAA	2957	0.5	0.0	0.0
2	1	0	ACCTATAATG	2958	0.5	0.0	0.0
0	2	1	ACCTCATTAA	2959	#DIV/0!	0.5	#DIV/0!
1	1	1	ACCTCCAAMA	2960	1.0	1.0	1.0
0	2	1	ACCTCTGGGT	2961	#DIV/0!	0.5	#DIV/0!
2	1	0	ACCTTTCCC	2962	0.5	0.0	0.0
2	1	0	ACGAAAATCC	2963	0.5	0.0	0.0
0	3	0	ACGAAAATGG	2964	#DIV/0!	0.0	#DIV/0!
2	0	1	ACGAGTAAA	2965	0.0	#DIV/0!	0.5
2	0	1	ACGATATTCA	2966	0.0	#DIV/0!	0.5

Table 5, cont.

0	2	1	ACGCTGTTG	2967	#DIV/0!	0.5	#DIV/0!
0	3	0	ACGGAAAAGA	2968	#DIV/0!	0.0	#DIV/0!
0	3	0	ACTACAAGAC	2969	#DIV/0!	0.0	#DIV/0!
1	1	1	ACTATTTAA	2970	1.0	1.0	1.0
0	3	0	ACTCCAGTAA	2971	#DIV/0!	0.0	#DIV/0!
1	2	0	ACTCCGATGG	2972	2.0	0.0	0.0
1	2	0	ACTCCTCCCA	2973	2.0	0.0	0.0
2	1	0	ACTCTTAACGG	2974	0.5	0.0	0.0
1	1	1	ACTGCTATAAG	2975	1.0	1.0	1.0
0	3	0	ACTGTAGAAA	2976	#DIV/0!	0.0	#DIV/0!
1	0	2	ACTGGGTTG	2977	0.0	#DIV/0!	2.0
2	0	1	ACTTCCCAG	2978	0.0	#DIV/0!	0.5
0	2	1	AGAAAAAAA	2979	#DIV/0!	0.5	#DIV/0!
1	1	1	AGAAAACAGA	2980	1.0	1.0	1.0
1	1	1	AGAAAACTGTA	2981	1.0	1.0	1.0
0	3	0	AGAAAAGAGGG	2982	#DIV/0!	0.0	#DIV/0!
1	1	1	AGAAATCTCT	2983	1.0	1.0	1.0
1	1	1	AGAACGCAAGT	2984	1.0	1.0	1.0
3	0	0	AGAAATAATGA	2985	0.0	#DIV/0!	0.0
1	0	2	AGACCAACTG	2986	0.0	#DIV/0!	2.0
2	1	0	AGACGGGGCT	2987	0.5	0.0	0.0
2	1	0	AGACTATAACA	2988	0.5	0.0	0.0
1	2	0	AGAGACATCG	2989	2.0	0.0	0.0
2	1	0	AGAGAGATGT	2990	0.5	0.0	0.0
2	0	1	AGAGCGTACA	2991	0.0	#DIV/0!	0.5
2	1	0	AGAGTGCAA	2992	0.5	0.0	0.0
0	2	1	AGAGTGTTT	2993	#DIV/0!	0.5	#DIV/0!
0	1	2	AGATCAGTAA	2994	#DIV/0!	2.0	#DIV/0!

Table 5, cont.

0	1	2	AGATGGTTCC	2995	#DIV/0!	2.0	#DIV/0!
2	1	0	AGCGAACCA	2996	0.5	0.0	0.0
2	1	0	AGCCGATTAT	2997	0.5	0.0	0.0
1	1	1	AGCGTAATAA	2998	1.0	1.0	1.0
2	1	0	AGCTTGTTC	2999	0.5	0.0	0.0
0	0	3	AGGACACAA	3000	#DIV/0!	#DIV/0!	#DIV/0!
1	2	0	AGGAATGATGA	3001	2.0	0.0	0.0
0	3	0	AGGATTCTGA	3002	#DIV/0!	0.0	#DIV/0!
0	2	1	AGGCATCTG	3003	#DIV/0!	0.5	#DIV/0!
3	0	0	AGGTAGATCT	3004	0.0	#DIV/0!	0.0
0	1	2	AGTAATTCTA	3005	#DIV/0!	2.0	#DIV/0!
1	2	0	AGTCAAAATG	3006	2.0	0.0	0.0
2	1	0	AGTCAAACCTT	3007	0.5	0.0	0.0
1	0	2	AGTCAGTTG	3008	0.0	#DIV/0!	2.0
1	1	1	AGTGAGTATA	3009	1.0	1.0	1.0
1	2	0	AGTTGCTATG	3010	2.0	0.0	0.0
1	2	0	AGTTTGTATA	3011	2.0	0.0	0.0
0	2	1	AGTTTACAG	3012	#DIV/0!	0.5	#DIV/0!
1	0	2	ATAAAGAACAA	3013	0.0	#DIV/0!	2.0
2	1	0	ATAACGAAAA	3014	0.5	0.0	0.0
1	2	0	ATAAGACAGT	3015	2.0	0.0	0.0
1	1	1	ATAAGGATGG	3016	1.0	1.0	1.0
1	1	1	ATAAGGCAGT	3017	1.0	1.0	1.0
2	1	0	ATAATAAAAA	3018	0.5	0.0	0.0
2	0	1	ATAATATTGG	3019	0.0	#DIV/0!	0.5
2	1	0	ATAATGGAAC	3020	0.5	0.0	0.0
1	1	1	ATAATTATA	3021	1.0	1.0	1.0
0	2	1	ATACAGCAG	3022	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

1	1	1	ATACCAGCTT	3023	1.0	1.0	1.0
0	2	1	ATACCTTTT	3024	#DIV/0!	0.5	#DIV/0!
0	2	1	ATAGCGTTGA	3025	#DIV/0!	0.5	#DIV/0!
1	0	2	ATAGCTGCC	3026	0.0	#DIV/0!	2.0
2	1	0	ATAGTCGGA	3027	0.5	0.0	0.0
0	3	0	ATATAAAAAA	3028	#DIV/0!	0.0	#DIV/0!
1	0	2	ATCATAAAAA	3029	0.0	#DIV/0!	2.0
0	2	1	ATCCAATCTC	3030	#DIV/0!	0.5	#DIV/0!
0	2	1	ATCCATCCAC	3031	#DIV/0!	0.5	#DIV/0!
1	0	2	ATCGACCGCG	3032	0.0	#DIV/0!	2.0
1	2	0	ATCGCCGGCTT	3033	2.0	0.0	0.0
0	1	2	ATCGGGCTCA	3034	#DIV/0!	2.0	#DIV/0!
2	1	0	ATCTAGAACT	3035	0.5	0.0	0.0
2	1	0	ATCTAGAAC	3036	0.5	0.0	0.0
0	3	0	ATCTCATCAT	3037	#DIV/0!	0.0	#DIV/0!
2	0	1	ATCTGAAAAA	3038	0.0	#DIV/0!	0.5
0	3	0	ATCTGGATA	3039	#DIV/0!	0.0	#DIV/0!
1	1	1	ATCTGTAC	3040	1.0	1.0	1.0
1	2	0	ATGAAAAAAA	3041	2.0	0.0	0.0
0	1	2	ATGAAGTTCC	3042	#DIV/0!	2.0	#DIV/0!
1	2	0	ATGAATTATA	3043	2.0	0.0	0.0
0	1	2	ATGACAGACA	3044	#DIV/0!	2.0	#DIV/0!
3	0	0	ATGACCATAA	3045	0.0	#DIV/0!	0.0
0	1	2	ATGACGGCAG	3046	#DIV/0!	2.0	#DIV/0!
0	1	2	ATGAGGGCAA	3047	#DIV/0!	2.0	#DIV/0!
1	0	2	ATGCTAGATG	3048	0.0	#DIV/0!	2.0
0	2	1	ATGGAAGCCC	3049	#DIV/0!	0.5	#DIV/0!
0	1	2	ATGGAGTTGT	3050	#DIV/0!	2.0	#DIV/0!

Table 5, cont

0	3	0	ATGCCATT C	3051	#DIV/0!	0.0	#DIV/0!
1	1	1	ATGCCGTAG	3052	1.0	1.0	1.0
0	1	2	ATGGGCTCCA	3053	#DIV/0!	2.0	#DIV/0!
1	0	2	ATGTAGGGGA	3054	0.0	#DIV/0!	2.0
1	2	0	ATGTATAGTC	3055	2.0	0.0	0.0
2	1	0	ATGTTGGGA	3056	0.5	0.0	0.0
0	2	1	ATTAAGGTT	3057	#DIV/0!	0.5	#DIV/0!
2	0	1	ATTAAACTAG	3058	0.0	#DIV/0!	0.5
2	1	0	ATTAACTGTTG	3059	0.5	0.0	0.0
1	1	1	ATTATGGGAG	3060	1.0	1.0	1.0
1	0	2	ATTCCCCGAA	3061	0.0	#DIV/0!	2.0
0	1	2	ATTCCCTGACG	3062	#DIV/0!	2.0	#DIV/0!
2	1	0	ATTCTGGGA	3063	0.5	0.0	0.0
1	1	1	ATTCTTGGC	3064	1.0	1.0	1.0
1	1	1	ATTCTTGGGA	3065	1.0	1.0	1.0
0	1	2	ATTCTTTTCG	3066	#DIV/0!	2.0	#DIV/0!
1	2	0	ATTGAGGTGC	3067	2.0	0.0	0.0
3	0	0	ATTGCTAAGG	3068	0.0	#DIV/0!	0.0
0	3	0	ATGGGGTTCG	3069	#DIV/0!	0.0	#DIV/0!
1	0	2	ATGGGGTGC	3070	0.0	#DIV/0!	2.0
0	3	0	ATTGTATT A	3071	#DIV/0!	0.0	#DIV/0!
1	2	0	ATTATTCA T	3072	2.0	0.0	0.0
1	0	2	ATTTCAC CCT	3073	0.0	#DIV/0!	2.0
2	1	0	ATTTCAGAAA	3074	0.5	0.0	0.0
0	1	2	ATTTCAGTTT	3075	#DIV/0!	2.0	#DIV/0!
0	3	0	ATTCCATAT	3076	#DIV/0!	0.0	#DIV/0!
0	0	3	ATTCTTTCCC	3077	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	ATTGAGAA	3078	0.0	#DIV/0!	2.0

Table 5, cont.

1	1	ATTTGGCCAT	3079	1.0	1.0	1.0
0	2	ATTTTACATA	3080	#DIV/0!	0.5	#DIV/0!
1	2	ATTTTATTG	3081	2.0	0.0	0.0
2	1	ATTTTAAA	3082	0.5	0.0	0.0
1	2	ATTTTGTGT	3083	2.0	0.0	0.0
0	3	ATTTTTAAA	3084	#DIV/0!	0.0	#DIV/0!
1	1	CAAAAAATCG	3085	1.0	1.0	1.0
0	0	CAAAACCAA	3086	#DIV/0!	#DIV/0!	#DIV/0!
2	0	CAAAACCCA	3087	0.0	#DIV/0!	0.5
1	0	CAAAATTAGA	3088	0.0	#DIV/0!	2.0
1	2	CAAAACAAACG	3089	2.0	0.0	0.0
0	0	CAAAACCAAC	3090	#DIV/0!	#DIV/0!	#DIV/0!
2	0	CAAAGAAACC	3091	0.0	#DIV/0!	0.5
2	0	CAACAAAGCA	3092	0.0	#DIV/0!	0.5
2	0	CAACACCCAA	3093	0.0	#DIV/0!	0.5
1	2	CAACCCATC	3094	2.0	0.0	0.0
1	1	CAAGGAATGCA	3095	1.0	1.0	1.0
1	0	CAAGACACGT	3096	0.0	#DIV/0!	2.0
2	1	CAAGATTGAT	3097	0.5	0.0	0.0
0	1	CAAGGAGCCT	3098	#DIV/0!	2.0	#DIV/0!
0	3	CAATTCACCT	3099	#DIV/0!	0.0	#DIV/0!
0	0	CAATTCCCTAC	3100	#DIV/0!	#DIV/0!	#DIV/0!
3	0	CAATTTTCAG	3101	0.0	#DIV/0!	0.0
0	1	CACATTTCGTT	3102	#DIV/0!	2.0	#DIV/0!
2	0	CACCACTCCT	3103	0.0	#DIV/0!	0.5
3	0	CACCTGTTG	3104	0.0	#DIV/0!	0.0
0	2	CACGTACACA	3105	#DIV/0!	0.5	#DIV/0!
2	0	CACGTTCTA	3106	0.0	#DIV/0!	0.5

Table 5, cont.

0	1	2	CACTTGACTT	3107	#DIV/0!	2.0	#DIV/0!
0	1	2	CAGAAATAGC	3108	#DIV/0!	2.0	#DIV/0!
1	1	1	CAGAAGTTTA	3109	1.0	1.0	1.0
2	0	1	CAGAATTGGA	3110	0.0	#DIV/0!	0.5
1	0	2	CAGATGAGTG	3111	0.0	#DIV/0!	2.0
0	1	2	CAGGCCCTGAG	3112	#DIV/0!	2.0	#DIV/0!
2	0	1	CAGCTCAACA	3113	0.0	#DIV/0!	0.5
3	0	0	CAGGAATGAA	3114	0.0	#DIV/0!	0.0
1	1	1	CAGGTACCGC	3115	1.0	1.0	1.0
2	1	0	CAGGGTTTGT	3116	0.5	0.0	0.0
1	2	0	CAGTACTTTC	3117	2.0	0.0	0.0
2	1	0	CAGTCCTTGC	3118	0.5	0.0	0.0
2	1	0	CAGTGGCTCT	3119	0.5	0.0	0.0
1	1	1	CAGTTTCTAT	3120	1.0	1.0	0.0
0	3	0	CATACATACA	3121	#DIV/0!	0.0	1.0
0	3	0	CATACATATT	3122	#DIV/0!	0.0	#DIV/0!
0	2	1	CATACTTAT	3123	#DIV/0!	0.5	#DIV/0!
2	0	1	CATACCTCAA	3124	0.0	#DIV/0!	0.5
1	1	1	CATATTCTG	3125	1.0	1.0	1.0
1	1	1	CATTACCCCG	3126	1.0	1.0	1.0
1	0	2	CATTCAATGG	3127	0.0	#DIV/0!	1.0
1	1	1	CATTCACCGAT	3128	1.0	1.0	2.0
0	3	0	CATTCCCTAT	3129	#DIV/0!	0.0	1.0
0	2	1	CATTGATCCCT	3130	#DIV/0!	0.5	#DIV/0!
1	0	2	CATTGGTACT	3131	0.0	#DIV/0!	2.0
3	0	0	CATTTTAAA	3132	0.0	#DIV/0!	0.0
1	1	1	CATTTTTCC	3133	1.0	1.0	1.0
2	1	0	CCAAGATCAA	3134	0.5	0.0	0.0

Table 5, cont.

0	0	3	CCAAGGGTAC	3135	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	CCAAATATTA	3136	0.0	#DIV/0!	0.5
1	1	1	CCACAGTAGT	3137	1.0	1.0	1.0
1	2	0	CCACGGTTGA	3138	2.0	0.0	0.0
0	2	1	CCACTGTCAG	3139	#DIV/0!	0.5	#DIV/0!
1	2	0	CCACCTTTTG	3140	2.0	0.0	0.0
1	0	2	CCAGATAATT	3141	0.0	#DIV/0!	2.0
1	1	1	CCAGTAATCC	3142	1.0	1.0	1.0
0	2	1	CCATCAACAG	3143	#DIV/0!	0.5	#DIV/0!
2	1	0	CCATCCTTAC	3144	0.5	0.0	0.0
0	1	2	CCCAATATT	3145	#DIV/0!	2.0	#DIV/0!
1	1	1	CCCAATTCT	3146	1.0	1.0	1.0
2	0	1	CCCAAGCTGCC	3147	0.0	#DIV/0!	0.5
0	2	1	CCCATTATCT	3148	#DIV/0!	0.5	#DIV/0!
1	0	2	CCCGTATTAT	3149	0.0	#DIV/0!	2.0
0	1	2	CCCGTCACAA	3150	#DIV/0!	2.0	#DIV/0!
1	1	1	CCGAAACAGG	3151	1.0	1.0	1.0
1	1	1	CCGACAGTAA	3152	1.0	1.0	1.0
0	1	2	CCGATGTCTA	3153	#DIV/0!	2.0	#DIV/0!
3	0	0	CCTCCAACGG	3154	0.0	#DIV/0!	0.0
1	2	0	CCTCTACTGG	3155	2.0	0.0	0.0
0	3	0	CCTGTTTTG	3156	#DIV/0!	0.0	#DIV/0!
1	2	0	CCTTAAGGGT	3157	2.0	0.0	0.0
1	0	2	CCTTAGAAC	3158	0.0	#DIV/0!	2.0
2	1	0	CCTTCAAAT	3159	0.5	0.0	0.0
1	1	1	CCTTCTGAA	3160	1.0	1.0	1.0
1	2	0	CGAAGTCAA	3161	2.0	0.0	0.0
2	0	1	CGACTGCTAA	3162	0.0	#DIV/0!	0.5

Table 5, cont.

1	1	1	CGACTGTAAA	3163	1.0	1.0		1.0
0	0	3	CGAGTCATT	3164	#DIV/0!	0.0		#DIV/0!
1	1	1	CGATATCCAC	3165	1.0	1.0		1.0
0	0	1	CGATCAAAGC	3166	#DIV/0!	2.0		#DIV/0!
2	2	1	CGCAAAGCGA	3167	0.5	0.0		0.0
0	0	3	CGCAAGGTC	3168	#DIV/0!	0.0		#DIV/0!
0	0	2	CGCAGTTATA	3169	#DIV/0!	0.5		#DIV/0!
1	1	2	CGCATTATTA	3170	2.0	0.0		0.0
1	1	2	CGCCGTGCTTA	3171	2.0	0.0		0.0
1	1	1	CGCCGTGTTA	3172	1.0	1.0		0.0
3	3	0	CGCTTCCAAT	3173	0.0	#DIV/0!		1.0
0	0	3	CGGA GTTCCA	3174	#DIV/0!	0.0		#DIV/0!
1	1	1	CGGCAGTGAA	3175	1.0	1.0		1.0
0	0	3	CGGCCAAGAC	3176	#DIV/0!	0.0		#DIV/0!
1	1	1	CGGCCATTAT	3177	1.0	1.0		1.0
0	0	1	CGGCCCTTTT	3178	#DIV/0!	2.0		#DIV/0!
1	1	0	CGGTAAAAAC	3179	0.0	#DIV/0!		2.0
3	3	0	CGGTAAATCCC	3180	0.0	#DIV/0!		0.0
1	1	2	CGTACACGCG	3181	2.0	0.0		0.0
1	1	1	CGTATTAAAG	3182	1.0	1.0		1.0
1	1	2	CGTCTCCGGA	3183	2.0	0.0		0.0
2	2	0	CGTTGCGAAA	3184	0.0	#DIV/0!		0.5
1	1	2	CTAAAAAAA	3185	2.0	0.0		0.0
1	1	0	CTAACCTCCG	3186	0.0	#DIV/0!		2.0
2	2	0	CTAAGAGCTG	3187	0.0	#DIV/0!		0.5
0	0	1	CTACAGAAGA	3188	#DIV/0!	2.0		#DIV/0!
1	1	2	CTACCTCTGA	3189	2.0	0.0		0.0
1	1	0	CTACTGCCAA	3190	0.0	#DIV/0!		2.0

Table 5, cont.

1	1	1	CTACTTCTGC	3191	1.0	1.0	1.0
0	1	2	CTAGTCGGCC	3192	#DIV/0!	2.0	#DIV/0!
0	0	3	CTAGTGTGTT	3193	#DIV/0!	0.0	#DIV/0!
1	1	2	CTATGTCGTA	3194	2.0	0.0	0.0
2	0	1	CTCAAGAGGG	3195	0.0	#DIV/0!	0.5
0	2	1	CTCTACAGTA	3196	#DIV/0!	0.5	#DIV/0!
2	0	1	CTCTACTGGT	3197	0.0	#DIV/0!	0.5
1	2	0	CTCTAGATAA	3198	2.0	0.0	0.0
2	1	0	CTCTATTCAA	3199	0.5	0.0	0.0
0	3	0	CTCTCCGGCG	3200	#DIV/0!	0.0	#DIV/0!
0	2	1	CTCTTCATCT	3201	#DIV/0!	0.5	#DIV/0!
1	1	1	CTGATTGCCA	3202	1.0	1.0	1.0
0	0	3	CTGCAGTGT	3203	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	CTGCTAAAAA	3204	0.0	#DIV/0!	2.0
1	0	2	CTGGAAACCTA	3205	0.0	#DIV/0!	2.0
0	3	0	CTGGTAGAAA	3206	#DIV/0!	0.0	#DIV/0!
0	1	2	CTGTGGGGGA	3207	#DIV/0!	2.0	#DIV/0!
1	2	0	CTGTTATTTT	3208	2.0	0.0	0.0
0	3	0	CTGTTGTGTT	3209	#DIV/0!	0.0	#DIV/0!
2	1	0	CTTACACTAT	3210	0.5	0.0	0.0
0	3	0	CTTACATATA	3211	#DIV/0!	0.0	#DIV/0!
2	0	1	CTTACCCCAG	3212	0.0	#DIV/0!	0.5
1	0	2	CTTACGATTA	3213	0.0	#DIV/0!	2.0
1	2	0	CTTCAAGGTT	3214	2.0	0.0	0.0
2	1	0	CTTCAGAAAA	3215	0.5	0.0	0.0
2	1	0	CTTCTGAAGA	3216	0.5	0.0	0.0
1	0	2	CTTCTCTGCG	3217	0.0	#DIV/0!	2.0
1	1	1	CTTGTGCTT	3218	1.0	1.0	1.0

Table 5, cont.

1	2	0	CTTGTAGGAA	3219	2.0	0.0	0.0
1	1	1	CTTTTAGTT	3220	1.0	1.0	1.0
1	1	1	CTTTTTC	3221	1.0	1.0	1.0
1	1	1	GAAACAAACGA	3222	1.0	1.0	1.0
1	0	2	GAAACCTGCT	3223	0.0	#DIV/0!	2.0
0	3	0	GAAACTTGA	3224	#DIV/0!	0.0	#DIV/0!
1	2	0	GAACTTAT	3225	2.0	0.0	0.0
1	1	1	GAAAGCTAGA	3226	1.0	1.0	1.0
2	0	1	GAAAGCTTT	3227	0.0	#DIV/0!	0.5
0	2	1	GAAAGGAAA	3228	#DIV/0!	0.5	#DIV/0!
1	1	1	GAAAGGGTAT	3229	1.0	1.0	1.0
2	1	0	GAAATAAAAT	3230	0.5	0.0	0.0
1	0	2	GAAATATCAC	3231	0.0	#DIV/0!	2.0
0	0	3	GAAATCCAC	3232	#DIV/0!	#DIV/0!	#DIV/0!
0	2	1	GAAATGTCTG	3233	#DIV/0!	0.5	#DIV/0!
1	0	2	GAACGGCGAA	3234	0.0	#DIV/0!	2.0
2	1	0	GAACTGTGCG	3235	0.5	0.0	0.0
2	1	0	GAACTTATTG	3236	0.5	0.0	0.0
1	1	1	GAAGAAATGG	3237	1.0	1.0	1.0
1	0	2	GAAGAGGGGG	3238	0.0	#DIV/0!	2.0
2	0	1	GAAGATTTCAC	3239	0.0	#DIV/0!	0.5
0	2	1	GAAGGAAGAA	3240	#DIV/0!	0.5	#DIV/0!
2	1	0	GAATATGAAA	3241	0.5	0.0	0.0
2	1	0	GAATCGTGGG	3242	0.5	0.0	0.0
1	0	2	GAATGTGAAA	3243	0.0	#DIV/0!	2.0
3	0	0	GAATTAAGA	3244	0.0	#DIV/0!	0.0
3	0	0	GAATTGTACT	3245	0.0	#DIV/0!	0.0
1	1	1	GACAAGTGGC	3246	1.0	1.0	1.0

Table 5, cont.

2	1	0	GACAGATACG	3247	0.5	0.0	0.0	0.0
0	2	1	GACAGGGCCT	3248	#DIV/0!	0.5	#DIV/0!	#DIV/0!
1	0	2	GACCACTCCT	3249	0.0	#DIV/0!	2.0	2.0
1	1	1	GACGGGGAAA	3250	1.0	1.0	1.0	1.0
1	0	2	GACCTTGATT	3251	0.0	#DIV/0!	2.0	2.0
2	1	0	GACTCACTG	3252	0.5	0.0	0.0	0.0
1	0	2	GACTGACTTA	3253	0.0	#DIV/0!	2.0	2.0
2	1	0	GACTTGTTT	3254	0.5	0.0	0.0	0.0
3	0	0	GAGAAGAAA	3255	0.0	#DIV/0!	0.0	0.0
1	1	1	GAGACCAATT	3256	1.0	1.0	1.0	1.0
0	0	3	GAGAGATTT	3257	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	GAGAGTGTG	3258	0.0	#DIV/0!	2.0	2.0
0	0	3	GAGATACTT	3259	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GAGATCAATT	3260	#DIV/0!	2.0	#DIV/0!	#DIV/0!
1	1	1	GAGCCCACTT	3261	1.0	1.0	1.0	1.0
2	1	0	GAGCTCTGGC	3262	0.5	0.0	0.0	0.0
0	2	1	GAGCTTGGGA	3263	#DIV/0!	0.5	#DIV/0!	#DIV/0!
1	0	2	GAGGCCAG	3264	0.0	#DIV/0!	2.0	2.0
1	0	2	GAGGAATT	3265	0.0	#DIV/0!	2.0	2.0
0	3	0	GAGGTCTAAG	3266	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	2	0	GAGGTGTTT	3267	2.0	0.0	0.0	0.0
1	1	1	GAGTGTGAA	3268	1.0	1.0	1.0	1.0
0	2	1	GAGTGGTTCA	3269	#DIV/0!	0.5	#DIV/0!	#DIV/0!
0	2	1	GAGTTACGTA	3270	#DIV/0!	0.5	#DIV/0!	#DIV/0!
0	0	3	GATAAACTGC	3271	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	GATAACCTTC	3272	0.0	#DIV/0!	2.0	2.0
2	0	1	GATATGTACC	3273	0.0	#DIV/0!	0.5	0.5
2	1	0	GATATTACGG	3274	0.5	0.0	0.0	0.0

Table 5, cont.

0	1	2	GATCAGACGC	3275	#DIV/0!	2.0		#DIV/0!
0	2	1	GATCAGTATA	3276	#DIV/0!	0.5		#DIV/0!
0	0	3	GATCATCCGG	3277	#DIV/0!	#DIV/0!		#DIV/0!
0	1	2	GATCCATCGA	3278	#DIV/0!	2.0		#DIV/0!
1	1	1	GATGAAAAATA	3279	1.0	1.0	1.0	
3	0	0	GATGAAGGTG	3280	0.0	#DIV/0!	0.0	
1	0	2	GATGAAATTCT	3281	0.0	#DIV/0!	2.0	
1	1	1	GATGATGGGT	3282	1.0	1.0	1.0	
1	0	2	GATTCAACAG	3283	0.0	#DIV/0!	2.0	
1	1	1	GATTCAAGAA	3284	1.0	1.0	1.0	
0	2	1	GATTATTTG	3285	#DIV/0!	0.5		#DIV/0!
0	1	2	GCAAATCCAA	3286	#DIV/0!	2.0		#DIV/0!
1	1	1	GCAACACAC	3287	1.0	1.0	1.0	
1	0	2	GCAACTTATC	3288	0.0	#DIV/0!	12.0	
0	3	0	GCACACCGTG	3289	#DIV/0!	0.0		#DIV/0!
1	1	1	GCAGAAAGAAC	3290	1.0	1.0	1.0	
2	0	1	GCAGATGCTG	3291	0.0	#DIV/0!	0.5	
0	1	2	GCAGGTTGTA	3292	#DIV/0!	2.0		#DIV/0!
1	1	1	GCATAAATCG	3293	1.0	1.0	1.0	
1	2	0	GCATAGAGAA	3294	2.0	0.0	0.0	
1	1	1	GCATAGATA	3295	1.0	1.0	1.0	
0	3	0	GCATTCAAAA	3296	#DIV/0!	0.0		#DIV/0!
1	0	2	GCACCGTCC	3297	0.0	#DIV/0!	2.0	
1	2	0	GCCATAAGTG	3298	2.0	0.0	0.0	
2	1	0	GCCCCAATAC	3299	0.5	0.0	0.0	
1	2	0	GCCCCATCTAC	3300	2.0	0.0	0.0	
2	0	1	GCCCCGTAACG	3301	0.0	#DIV/0!	0.5	
0	1	2	GCCCTATTAA	3302	#DIV/0!	2.0		#DIV/0!

Table 5, cont.

0	0	3	GCCGTGCAGC	3303	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	GCCGTTCGAT	3304	1.0	1.0	1.0
0	3	0	GCCCTGAATA	3305	#DIV/0!	0.0	#DIV/0!
3	0	0	GCCCTGGTGA	3306	0.0	#DIV/0!	0.0
2	0	1	GCGAAAAAAA	3307	0.0	#DIV/0!	0.5
0	0	3	GCGAGTTAG	3308	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GCGCAGGGGC	3309	#DIV/0!	2.0	#DIV/0!
0	1	2	GCGTTTGAGG	3310	#DIV/0!	2.0	#DIV/0!
0	1	2	GCTAAAAGAT	3311	#DIV/0!	2.0	#DIV/0!
1	1	1	GCTATGAGT	3312	1.0	1.0	1.0
1	1	1	GCTCATAGAA	3313	1.0	1.0	1.0
1	1	1	GCTCCAATAG	3314	1.0	1.0	1.0
1	1	1	GCTGCTTAAGA	3315	1.0	1.0	1.0
1	1	0	GCTGCTCAAG	3316	0.0	#DIV/0!	2.0
1	1	1	GCTGTTAACG	3317	1.0	1.0	1.0
3	0	0	GCTTCAACGG	3318	0.0	#DIV/0!	0.0
2	0	1	GCTTGTGCC	3319	0.0	#DIV/0!	0.5
2	0	1	GCTTTTGGT	3320	0.0	#DIV/0!	0.5
1	1	1	GGAAAACAAG	3321	1.0	1.0	1.0
0	3	0	GGAAACATCT	3322	#DIV/0!	0.0	#DIV/0!
0	1	2	GGAAATCAAT	3323	#DIV/0!	2.0	#DIV/0!
1	2	0	GGAAACATAAC	3324	2.0	0.0	0.0
0	0	3	GGAAATACGAT	3325	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GGAATAGGAC	3326	#DIV/0!	2.0	#DIV/0!
2	0	1	GGAATCTTGA	3327	0.0	#DIV/0!	0.5
2	1	0	GGAAATTATGA	3328	0.5	0.0	0.0
1	0	2	GGACACTCT	3329	0.0	#DIV/0!	2.0
1	2	0	GGACGGTCTC	3330	2.0	0.0	0.0

Table 5, cont.

2	0	1	GGAGAAGTTC	3331	0.0	#DIV/0!	0.5
2	1	0	GGAGGGTCT	3332	0.5	0.0	0.0
0	2	1	GGATGCCAAC	3333	#DIV/0!	0.5	#DIV/0!
1	1	1	GCGAAGAAGA	3334	1.0	1.0	1.0
0	1	2	GCGAAGGTG	3335	#DIV/0!	2.0	#DIV/0!
0	1	2	GGCAATGGCA	3336	#DIV/0!	2.0	#DIV/0!
2	1	0	GGCATTGTC	3337	0.5	0.0	0.0
1	1	1	GCCCATACTG	3338	1.0	1.0	1.0
2	1	0	GCCCCATTAC	3339	0.5	0.0	0.0
2	1	0	GGCGTTAACG	3340	0.5	0.0	0.0
1	1	1	GGCGTTGTT	3341	1.0	1.0	1.0
0	0	2	GGCTCTGGTT	3342	#DIV/0!	0.5	#DIV/0!
0	1	2	GGCTGGTCG	3343	#DIV/0!	2.0	#DIV/0!
-1	1	1	GGCTTCAAGA	3344	1.0	1.0	1.0
2	0	1	GGCTTGTAC	3345	0.0	#DIV/0!	0.5
2	0	1	GGGATTTGG	3346	0.0	#DIV/0!	0.5
0	2	1	GGGCAATT	3347	#DIV/0!	0.5	#DIV/0!
1	1	1	GGGCAGCTG	3348	1.0	1.0	1.0
1	0	2	GGTCCAGAT	3349	0.0	#DIV/0!	2.0
0	0	3	GGTGAAAC	3350	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GGGTAAAAAG	3351	#DIV/0!	2.0	#DIV/0!
1	0	2	GGGTTACAGG	3352	0.0	#DIV/0!	2.0
0	1	2	GGGTTGGTT	3353	#DIV/0!	2.0	#DIV/0!
1	2	0	GGTAAAAACG	3354	2.0	0.0	0.0
1	1	1	GGTAGGTAAG	3355	1.0	1.0	1.0
0	1	2	GGTCCAGCTC	3356	#DIV/0!	2.0	#DIV/0!
0	1	2	GGTCTCAGGT	3357	#DIV/0!	2.0	#DIV/0!
2	1	0	GGTAAAAACC	3358	0.5	0.0	0.0

Table 5, cont.

2	1	0	GGTGAAGCG	3359	0.5	0.0	0.0
0	0	3	GGTGACCAA	3360	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GGTGATAAAAT	3361	#DIV/0!	2.0	#DIV/0!
2	0	1	GGTGCTGTGT	3362	0.0	#DIV/0!	0.5
1	1	1	GGTGGAAACG	3363	1.0	1.0	1.0
0	1	2	GGTGGCCAGC	3364	#DIV/0!	2.0	#DIV/0!
1	1	1	GGTGGTCCAA	3365	1.0	1.0	1.0
0	1	2	GGTGTAAACG	3366	#DIV/0!	2.0	#DIV/0!
2	1	0	GGTGTAACT	3367	0.5	0.0	0.0
1	1	1	GGTGTAAATG	3368	1.0	1.0	1.0
0	3	0	GGTGTTTTA	3369	#DIV/0!	0.0	#DIV/0!
3	0	0	GGTTACGGTT	3370	0.0	#DIV/0!	0.0
0	1	2	GGTTCCGGTA	3371	#DIV/0!	2.0	#DIV/0!
0	0	3	GGTCGGTTT	3372	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	GGTTGTGTTA	3373	1.0	1.0	1.0
0	0	3	GGTTCCGGT	3374	#DIV/0!	#DIV/0!	#DIV/0!
2	1	0	GGTTCCCTGA	3375	0.5	0.0	0.0
1	1	1	GGTTCCCTTC	3376	1.0	1.0	1.0
1	2	0	GGTTTCGGTC	3377	2.0	0.0	0.0
1	2	0	GGTTTTAAAG	3378	2.0	0.0	0.0
0	1	2	GGTTTTGGCT	3379	#DIV/0!	2.0	#DIV/0!
2	0	1	GTAAAAAGAAT	3380	0.0	#DIV/0!	0.5
2	1	0	GTAACGAATC	3381	0.5	0.0	0.0
0	2	1	GTAAGATTGA	3382	#DIV/0!	0.5	#DIV/0!
0	1	2	GTACAGCTAT	3383	#DIV/0!	2.0	#DIV/0!
1	1	1	GTACCTACCC	3384	1.0	1.0	1.0
0	2	1	GTACTCCAGC	3385	#DIV/0!	0.5	#DIV/0!
1	1	1	GTAGCTACAG	3386	1.0	1.0	1.0

Table 5, cont.

0	3	0	GTAGTATTAG	3387	#DIV/0!	0.0	#DIV/0!
1	2	0	GTATAGCAA	3388	2.0	0.0	0.0
-1	2	0	GTATCGAAAA	3389	2.0	0.0	0.0
0	3	0	GTATTTTCA	3390	#DIV/0!	0.0	#DIV/0!
0	1	2	GTAGATTCT	3391	#DIV/0!	2.0	#DIV/0!
0	2	1	GTCCATAAGC	3392	#DIV/0!	0.5	#DIV/0!
0	2	1	GTGCCGGCTC	3393	#DIV/0!	0.5	#DIV/0!
1	1	1	GTGGGACTGC	3394	1.0	1.0	1.0
1	1	1	GTCTCGCTTG	3395	1.0	1.0	1.0
2	1	0	GTCCTTCCTT	3396	0.5	0.0	0.0
2	1	0	GTCTTTCAC	3397	0.5	0.0	0.0
1	0	2	GTGAAAAAAA	3398	0.0	#DIV/0!	2.0
2	1	0	GTGAAAGCGA	3399	0.5	0.0	0.0
1	1	1	GTGAGCAGTC	3400	1.0	1.0	1.0
1	1	1	GTGC GTGTT	3401	1.0	1.0	1.0
0	2	1	GTGCTTCTTT	3402	#DIV/0!	0.5	#DIV/0!
0	3	0	GTGAGATT	3403	#DIV/0!	0.0	#DIV/0!
2	1	0	GTGGCTACTC	3404	0.5	0.0	0.0
1	2	0	GTGGCTACTT	3405	2.0	0.0	0.0
0	2	1	GTGGTATTGC	3406	#DIV/0!	0.5	#DIV/0!
2	0	1	GTGGTTTC	3407	0.0	#DIV/0!	0.5
2	0	1	GTGTCAGTT	3408	0.0	#DIV/0!	0.5
0	2	1	GTGGGGT CCT	3409	#DIV/0!	0.5	#DIV/0!
-1	2	0	GTAAAGAAA	3410	2.0	0.0	0.0
0	1	2	GTAAATTT	3411	#DIV/0!	2.0	#DIV/0!
0	1	2	GTATATGCT	3412	#DIV/0!	2.0	#DIV/0!
1	2	0	GTATATTGA	3413	2.0	0.0	0.0
2	0	-1	GTCAAGAGG	3414	0.0	#DIV/0!	0.5

Table 5, cont.

2	1	0	GTTCCAAAGC	3415	0.5	0.0	0.0
1	0	2	GTTCCAACCT	3416	0.0	#DIV/0!	2.0
2	0	1	GTTCCCTGGCT	3417	0.0	#DIV/0!	0.5
0	1	2	GTTCGAAAAC	3418	#DIV/0!	2.0	#DIV/0!
2	1	0	GTTGATGACA	3419	0.5	0.0	0.0
0	2	1	GTTGGTGAAA	3420	#DIV/0!	0.5	#DIV/0!
1	1	1	GTTTACAAAC	3421	1.0	1.0	1.0
2	1	0	GTTTCTATAA	3422	0.5	0.0	0.0
1	1	1	GTTTCCTGCC	3423	1.0	1.0	1.0
0	3	0	GTTTGACACC	3424	#DIV/0!	0.0	#DIV/0!
0	0	3	GTTTTCCCTT	3425	#DIV/0!	#DIV/0!	#DIV/0!
2	1	0	TAAAATACTA	3426	0.5	0.0	0.0
2	1	0	TAACGGCCG	3427	0.5	0.0	0.0
2	0	1	TAATAATT	3428	0.0	#DIV/0!	0.5
0	3	0	TAATATATA	3429	#DIV/0!	0.0	#DIV/0!
1	1	1	TAATCTGAG	3430	1.0	1.0	1.0
0	1	2	TAATTTAAC	3431	#DIV/0!	2.0	#DIV/0!
2	1	0	TAACCCCTAA	3432	0.5	0.0	0.0
2	1	0	TAACCTTACA	3433	0.5	0.0	0.0
2	1	0	TAACTAGCGT	3434	0.5	0.0	0.0
2	1	0	TAACTGGAAG	3435	0.5	0.0	0.0
1	2	0	TAAGTATTG	3436	2.0	0.0	0.0
2	0	1	TAATGAATCT	3437	0.0	#DIV/0!	0.5
3	0	0	TAATTAGTTA	3438	0.0	#DIV/0!	0.0
2	0	1	TACAAGAAAA	3439	0.0	#DIV/0!	0.5
1	0	2	TACAGGTCTT	3440	0.0	#DIV/0!	2.0
1	1	1	TACATACAAA	3441	1.0	1.0	1.0
0	2	1	TACATATTT	3442	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

0	2	1	TACCCACCG	3443	#DIV/0!	0.5	#DIV/0!
1	0	2	TACCCACCTT	3444	0.0	#DIV/0!	2.0
2	0	1	TACCGAAAAA	3445	0.0	#DIV/0!	0.5
0	1	2	TACCTCCCT	3446	#DIV/0!	2.0	#DIV/0!
1	0	2	TACCGGCTCCCT	3447	0.0	#DIV/0!	2.0
1	1	1	TACCTCTCAG	3448	1.0	1.0	1.0
1	0	2	TACTAAGAAA	3449	0.0	#DIV/0!	2.0
0	0	3	TACTTTAAAT	3450	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	TAGAACAAAGA	3451	#DIV/0!	2.0	#DIV/0!
0	0	3	TAGAGAATGT	3452	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	TAGCAGAAAT	3453	0.0	#DIV/0!	0.5
1	0	2	TAGCCAATGC	3454	0.0	#DIV/0!	2.0
2	1	0	TAGGCCACCCC	3455	0.5	0.0	0.0
1	1	1	TAGCTATCAG	3456	1.0	1.0	1.0
2	1	0	TAGGGAACTA	3457	0.5	0.0	0.0
1	1	1	TAGGGCCCTC	3458	1.0	1.0	1.0
1	1	1	TAGGTTTTTT	3459	1.0	1.0	1.0
0	2	1	TAGTCAGGCC	3460	#DIV/0!	0.5	#DIV/0!
2	1	0	TAGTTAGTTT	3461	0.5	0.0	0.0
1	2	0	TAGTTTATT	3462	2.0	0.0	0.0
1	2	0	TATAAAGTAA	3463	2.0	0.0	0.0
2	1	0	TATAAATGTA	3464	0.5	0.0	0.0
2	1	0	TATAATGCTA	3465	0.5	0.0	0.0
2	1	0	TATAATAATA	3466	0.5	0.0	0.0
0	1	2	TATATAGAGT	3467	#DIV/0!	2.0	#DIV/0!
0	3	0	TATATATAAT	3468	#DIV/0!	0.0	#DIV/0!
1	1	1	TATATCGTAT	3469	1.0	1.0	1.0
0	2	1	TATATGTGTG	3470	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

2	1	0	TATATTAAGG	3471	0.5	0.0	0.0
1	1	1	TATATTGGAC	3472	1.0	1.0	1.0
1	1	1	TATATTTTA	3473	1.0	1.0	1.0
2	1	0	TATCTAGAGA	3474	0.5	0.0	0.0
1	2	0	TATCTTTTCA	3475	2.0	0.0	0.0
1	1	1	TATGATGTGA	3476	1.0	1.0	0.0
1	1	1	TATTACTGAC	3477	1.0	1.0	1.0
1	2	0	TATTCTGTAT	3478	2.0	0.0	1.0
2	0	1	TATTGTTTA	3479	0.0	#DIV/0!	0.0
2	1	0	TATTATAAT	3480	0.5	0.0	0.5
2	0	1	TATTATTTA	3481	0.0	#DIV/0!	0.0
2	1	0	TATTGGATGA	3482	0.5	0.0	0.5
0	2	1	TATTTGGATG	3483	#DIV/0!	0.5	#DIV/0!
0	3	0	TATTTTATAT	3484	#DIV/0!	0.0	#DIV/0!
0	2	1	TATTTTCAGG	3485	#DIV/0!	0.5	#DIV/0!
3	0	0	TATTTTTATT	3486	0.0	#DIV/0!	0.0
0	2	1	TCAAAAGAAG	3487	#DIV/0!	0.5	#DIV/0!
1	1	1	TCAACAGTT	3488	1.0	1.0	1.0
1	2	0	TCAAAGGATC	3489	2.0	0.0	0.0
1	1	1	TCAAATAGAT	3490	1.0	1.0	1.0
0	1	2	TCAAATTTT	3491	#DIV/0!	2.0	#DIV/0!
1	1	1	TCACTATAA	3492	1.0	1.0	1.0
1	2	0	TCATAGCTTA	3493	2.0	0.0	0.0
1	2	0	TCATATTATA	3494	2.0	0.0	0.0
0	1	2	TCATCACCAG	3495	#DIV/0!	2.0	#DIV/0!
2	0	1	TCCAACCTTG	3496	0.0	#DIV/0!	0.5
2	1	0	TCCATTATGC	3497	0.5	0.0	0.0
1	2	0	TCCATTATTAC	3498	2.0	0.0	0.0

Table 5, cont.

0	3	0	TCCCCGTAAA	3499	#DIV/0!	0.0	#DIV/0!
0	3	0	TCCCCGTACC	3500	#DIV/0!	0.0	#DIV/0!
1	1	1	TCCCCTATTAA	3501	1.0	1.0	1.0
3	0	0	TCCCTACTAA	3502	0.0	#DIV/0!	0.0
1	2	0	TCCCTACTGG	3503	2.0	0.0	0.0
2	1	0	TCCCTATTAT	3504	0.5	0.0	0.0
0	2	1	TCCCTTAAG	3505	#DIV/0!	0.5	0.0
2	1	0	TCCTCAGCTA	3506	0.5	0.0	#DIV/0!
1	1	1	TCCTCCGGAG	3507	1.0	0.0	0.0
1	1	1	TCGCCACTAA	3508	1.0	1.0	1.0
1	1	1	TCGCCGGAGGA	3509	1.0	1.0	1.0
1	1	1	TCGCCTCAGG	3510	1.0	1.0	1.0
0	1	2	TCGCCTGAAG	3511	#DIV/0!	2.0	#DIV/0!
0	0	3	TGGTGTATT	3512	#DIV/0!	0.0	#DIV/0!
0	0	3	TCGTCACTCAG	3513	#DIV/0!	0.0	#DIV/0!
0	0	3	TCGTCTGGTT	3514	#DIV/0!	#DIV/0!	#DIV/0!
0	2	1	TCGTTGAAGT	3515	#DIV/0!	0.5	#DIV/0!
2	0	1	TCTAGTCGAA	3516	0.0	#DIV/0!	0.5
1	1	1	TCTATAGCAA	3517	1.0	1.0	1.0
2	1	0	TCTCTACCGG	3518	0.5	0.0	0.0
2	0	1	TCTCTACTGT	3519	0.0	#DIV/0!	0.5
1	0	2	TCTGAGAGC	3520	0.0	#DIV/0!	2.0
2	1	0	TCTTCGTTAT	3521	0.5	0.0	0.0
1	0	2	TGAATGAAC	3522	0.0	#DIV/0!	2.0
1	1	1	TGACAAGTAT	3523	1.0	1.0	1.0
1	2	0	TGAGGAGAT	3524	2.0	0.0	0.0
0	0	3	TGAGCACTCC	3525	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	TGAGGAGTT	3526	0.0	#DIV/0!	0.5

Table 5, cont.

2	1	0	TGATCCAAAG	3527	0.5	0.0	0.0
0	2	1	TGATGACATT	3528	#DIV/0!	0.5	#DIV/0!
0	0	3	TGATGCCCA	3529	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	TGATTCATT	3530	0.0	#DIV/0!	0.5
1	2	0	TGCCCGTTGT	3531	2.0	0.0	0.0
0	2	1	TGCCGGTTCC	3532	#DIV/0!	0.5	#DIV/0!
1	0	2	TGCTAGTTA	3533	0.0	#DIV/0!	2.0
-1	2	0	TGCTATACAT	3534	2.0	0.0	0.0
-1	2	0	TGCTCTTCTT	3535	2.0	0.0	0.0
1	2	0	TGGATGTGTA	3536	2.0	0.0	0.0
1	0	2	TGGATTTTTA	3537	0.0	#DIV/0!	2.0
2	0	1	TGCCCAATTC	3538	0.0	#DIV/0!	0.5
1	2	0	TGGCTACGTC	3539	2.0	0.0	0.0
0	3	0	TGGGAAATGT	3540	#DIV/0!	0.0	#DIV/0!
1	1	1	TGGGTTGAAG	3541	1.0	1.0	1.0
2	1	0	TGGTACAAGG	3542	0.5	0.0	0.0
2	0	1	TGGTGAAGCT	3543	0.0	#DIV/0!	0.5
1	0	2	TGGTGTCACT	3544	0.0	#DIV/0!	2.0
1	1	1	TGTAACAATG	3545	1.0	1.0	1.0
0	0	3	TGTAACTTAA	3546	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	TGTACAGACG	3547	1.0	1.0	1.0
1	1	1	TGTATTGTTA	3548	1.0	1.0	1.0
1	2	0	TGTCCAATTG	3549	2.0	0.0	0.0
1	1	1	TGTCTACCAA	3550	1.0	1.0	1.0
1	2	0	TGTCGGGTG	3551	2.0	0.0	0.0
0	3	0	TGGGGTATAT	3552	#DIV/0!	0.0	#DIV/0!
1	1	1	TGTTACGTTA	3553	1.0	1.0	1.0
1	2	0	TGTTCTTCAT	3554	2.0	0.0	0.0

Table 5, cont.

2	0	1	TGTTTATAAA	3555	0.0	#DIV/0!	0.5
2	1	0	TGTTTGAAGG	3556	0.5	0.0	0.0
0	2	1	TTAACACAAA	3557	#DIV/0!	0.5	#DIV/0!
1	2	0	TTAACCTATA	3558	2.0	0.0	0.0
1	2	0	TTAAGTTTCG	3559	2.0	0.0	0.0
3	0	0	TTAATTATCT	3560	0.0	#DIV/0!	0.0
2	0	1	TTACCACTTC	3561	0.0	#DIV/0!	0.5
1	2	0	TTACTAAGGA	3562	2.0	0.0	0.0
0	2	1	TTAGAATGCA	3563	#DIV/0!	0.5	#DIV/0!
0	1	2	TTAGAGATTG	3564	#DIV/0!	2.0	#DIV/0!
1	0	2	TTAGGAAGGG	3565	0.0	#DIV/0!	2.0
2	0	1	TTAGGGCATA	3566	0.0	#DIV/0!	0.5
1	2	0	TTAGTTCCTA	3567	2.0	0.0	0.0
1	1	1	TTAGTTCCA	3568	1.0	1.0	1.0
1	2	0	TTAGTTCTG	3569	2.0	0.0	0.0
0	3	0	TTATATAAAA	3570	#DIV/0!	0.0	#DIV/0!
0	2	1	TTATATGGTG	3571	#DIV/0!	0.5	#DIV/0!
1	0	2	TTATTTCTAA	3572	0.0	#DIV/0!	2.0
1	1	1	TTCAAAAACA	3573	1.0	1.0	1.0
0	0	3	TTCAAAACTG	3574	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	TTCATAAAGTT	3575	1.0	1.0	1.0
0	0	3	TTCCACAGGA	3576	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	TTCGTAACT	3577	1.0	1.0	1.0
-1	0	2	TTCGTCCACT	3578	0.0	#DIV/0!	2.0
0	3	0	TTCTAGATGC	3579	#DIV/0!	0.0	#DIV/0!
0	3	0	TTCTATAATT	3580	#DIV/0!	0.0	#DIV/0!
1	0	2	TTGAACCTAG	3581	0.0	#DIV/0!	2.0
1	2	0	TTGAAGAAAA	3582	2.0	0.0	0.0

Table 5, cont.

				3583	#DIV/0!	0.5	#DIV/0!
0	2	1	TTGAAGAAAT	3584	0.0	#DIV/0!	0.5
2	0	1	TTGAAGTAGT	3585	0.0	#DIV/0!	0.0
3	0	0	TTGAGGATT	3586	0.0	#DIV/0!	2.0
1	0	2	TTGATGATT	3587	#DIV/0!	0.0	#DIV/0!
0	3	0	TTGATTACTT	3588	0.0	#DIV/0!	0.5
2	0	1	TTGCAGTCCT	3589	1.0	1.0	1.0
1	-1	1	TTGCCTGCCT	3590	0.5	0.0	0.0
2	1	0	TTGCTTCACA	3591	0.5	0.0	0.0
2	1	0	TTGGATAATT	3592	2.0	0.0	0.0
1	2	0	TTGGGCCAAGA	3593	2.0	0.0	0.0
1	2	0	TTGGGAGGGG	3594	0.5	0.0	0.0
2	1	0	TTGTATAAAG	3595	0.5	0.0	0.0
2	1	0	TTGTCAAAAA	3596	0.0	#DIV/0!	2.0
1	0	2	TTGTCGCACC	3597	#DIV/0!	0.0	#DIV/0!
0	3	0	TTTATTIGAG	3598	0.0	#DIV/0!	0.5
2	0	1	TTTCAAAAAA	3599	0.0	#DIV/0!	0.5
2	0	1	TTTCGGATT	3600	1.0	1.0	1.0
1	1	1	TTTCTGCTCC	3601	#DIV/0!	0.5	#DIV/0!
0	2	1	TTTGAATAAT	3602	#DIV/0!	2.0	#DIV/0!
0	1	2	TTTGATTGAA	3603	0.0	#DIV/0!	0.5
2	0	1	TTTGGCTGGCG	3604	1.0	1.0	1.0
1	1	1	TTTGGTAACA	3605	#DIV/0!	0.5	#DIV/0!
0	2	1	TTTACAAACC	3606	1.0	1.0	1.0
1	1	1	TTTTCACCTGG	3607	0.5	0.0	0.0
2	1	0	TTTTCAGATG	3608	1.0	1.0	1.0
1	1	1	TTTGTGTTT	3609	0.5	0.0	0.0
2	1	0	TTTTTATAAG	3610	0.0	#DIV/0!	0.0
3	0	0	TTTTGCCAA				

Table 5, cont.

2	0	1	TTTTGGAGT	3611	0.0	#DIV/0!	0.5
1	0	2	TTTTTCCGA	3612	0.0	#DIV/0!	2.0
-1	1	0	AAAAAAAC	3613	1.0	0.0	10.0
0	1	1	AAAAAAACTG	3614	#DIV/0!	1.0	#DIV/0!
0	1	1	AAAAAAGGT	3615	#DIV/0!	1.0	#DIV/0!
0	1	1	AAAAAAACTGC	3616	#DIV/0!	1.0	#DIV/0!
0	1	1	AAAAAAAGAA	3617	#DIV/0!	1.0	#DIV/0!
2	0	0	AAAAAAAGTTA	3618	0.0	#DIV/0!	1.0
1	1	0	AAAATCAT	3619	1.0	0.0	#DIV/0!
2	0	0	AAAAGATAC	3620	0.0	#DIV/0!	0.0
0	1	1	AAAAGGGTG	3621	#DIV/0!	1.0	#DIV/0!
1	0	1	AAAATAGAG	3622	0.0	#DIV/0!	0.0
2	0	0	AAAATTAT	3623	0.0	#DIV/0!	1.0
0	1	1	AAAACAGAAG	3624	#DIV/0!	1.0	#DIV/0!
1	0	1	AAAACGATT	3625	0.0	#DIV/0!	0.0
0	1	1	AAAAGAATCC	3626	#DIV/0!	1.0	#DIV/0!
0	2	0	AAAAGAATT	3627	#DIV/0!	0.0	#DIV/0!
1	0	1	AAAAGTAGTT	3628	0.0	#DIV/0!	1.0
0	1	1	AAAATACAGC	3629	#DIV/0!	1.0	#DIV/0!
-1	0	1	AAAATAGTGA	3630	0.0	#DIV/0!	1.0
-1	1	0	AAAATATCTT	3631	1.0	0.0	#DIV/0!
0	1	1	AAAATGACCG	3632	#DIV/0!	0.0	#DIV/0!
1	1	1	AAAATTGTTC	3633	1.0	1.0	#DIV/0!
1	1	0	AAAATTATA	3634	1.0	0.0	0.0
0	0	2	AAACAAACTG	3635	#DIV/0!	0.0	0.0
1	0	1	AAACAAGTGG	3636	0.0	#DIV/0!	#DIV/0!
0	2	0	AAACCAAGTTG	3637	#DIV/0!	1.0	#DIV/0!
-1	0	1	AAACCATTAA	3638	0.0	#DIV/0!	1.0

Table 5, cont.

0	0	2	AAACCGGATG	3639	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAACCGTGAA	3640	#DIV/0!	1.0	#DIV/0!
0	2	0	AAACGACTGT	3641	#DIV/0!	0.0	#DIV/0!
1	1	0	AAACGTCGCA	3642	1.0	0.0	0.0
2	0	0	AAACTATAAC	3643	0.0	#DIV/0!	0.0
0	1	-1	AAACTCTCTG	3644	#DIV/0!	1.0	#DIV/0!
1	0	1	AAACTCTTGA	3645	0.0	#DIV/0!	1.0
2	0	0	AAAAGAAAAA	3646	0.0	#DIV/0!	0.0
1	1	0	AAAAGACTAA	3647	1.0	0.0	0.0
0	0	2	AAAGAGCGAG	3648	#DIV/0!	0.0	#DIV/0!
0	1	1	AAAGATCCGA	3649	#DIV/0!	1.0	#DIV/0!
0	2	0	AAAGATTTCG	3650	#DIV/0!	0.0	#DIV/0!
0	0	0	AAAGCAGAGC	3651	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AAAGCTGTCG	3652	0.0	#DIV/0!	1.0
1	1	0	AAAGCTTTAG	3653	1.0	0.0	0.0
0	0	0	AAAGGTGCGTT	3654	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AAAGTGCTAC	3655	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AAAGTTTGGT	3656	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AAATAAAA	3657	#DIV/0!	0.0	#DIV/0!
0	0	2	AAATAATTT	3658	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAATACGACA	3659	#DIV/0!	1.0	#DIV/0!
1	1	0	AAATCATCTA	3660	1.0	0.0	0.0
1	0	1	AAATCCAATG	3661	0.0	#DIV/0!	1.0
0	2	0	AAATGAGTTT	3662	#DIV/0!	0.0	#DIV/0!
1	0	1	AAATGATTG	3663	0.0	#DIV/0!	1.0
1	1	0	AAATTACAAA	3664	1.0	0.0	0.0
0	2	0	AAATTCAAAA	3665	#DIV/0!	0.0	#DIV/0!
0	1	1	AAATTGAATG	3666	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

1	1	0	AAATTGCTTC	3667	1.0	0.0	0.0
0	2	0	AAATTTCAT	3668	#DIV/0!	0.0	#DIV/0!
1	1	0	AAATTTGGGG	3669	1.0	0.0	0.0
0	0	2	AACAAAATGG	3670	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AACAAAAGTT	3671	1.0	0.0	#DIV/0!
0	2	0	AACAAGAATA	3672	#DIV/0!	0.0	0.0
0	2	0	AACAAGACTT	3673	#DIV/0!	0.0	#DIV/0!
1	1	0	AACAAATCCAA	3674	1.0	0.0	#DIV/0!
1	0	1	AACAAATTCA	3675	0.0	#DIV/0!	0.0
1	0	1	AACAATTGCG	3676	0.0	#DIV/0!	1.0
0	2	0	AACACAGCCA	3677	#DIV/0!	0.0	#DIV/0!
-1	0	1	AACACTTGTC	3678	0.0	#DIV/0!	0.0
0	0	2	AACAGACAAT	3679	#DIV/0!	#DIV/0!	1.0
1	0	1	AACAGACCCA	3680	0.0	#DIV/0!	#DIV/0!
-1	0	1	AACAGGCTAT	3681	0.0	#DIV/0!	1.0
-1	0	1	AACCAAAGAC	3682	0.0	#DIV/0!	#DIV/0!
0	1	1	AACCAGTGTC	3683	#DIV/0!	1.0	#DIV/0!
1	0	1	AACCCTTTA	3684	0.0	#DIV/0!	1.0
0	2	0	AACCTTAACC	3685	#DIV/0!	0.0	#DIV/0!
0	1	1	AACGACTTGA	3686	#DIV/0!	1.0	#DIV/0!
0	1	1	AACGTAGTGC	3687	#DIV/0!	1.0	#DIV/0!
0	0	2	AACGTGGAA	3688	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	AACGTTAAA	3689	0.0	#DIV/0!	#DIV/0!
1	1	0	AACTAATGGA	3690	1.0	0.0	0.0
0	2	0	AACTATAATA	3691	#DIV/0!	0.0	0.0
1	1	0	AACTATGTTT	3692	1.0	0.0	#DIV/0!
0	0	2	AACTCACAAA	3693	#DIV/0!	0.0	#DIV/0!
-1	0	1	AACTCGAAAA	3694	0.0	#DIV/0!	1.0

Table 5, cont.

1	1	0	AACTCGCAC	3695	1.0	0.0	0.0
1	0	1	AACTGAACTG	3696	0.0	#DIV/0!	1.0
0	2	0	AACTGCAAGA	3697	#DIV/0!	0.0	#DIV/0!
0	1	1	AACTGTATGC	3698	#DIV/0!	1.0	#DIV/0!
0	1	1	AACTTATTTC	3699	#DIV/0!	1.0	#DIV/0!
1	1	0	AACTTCTCAA	3700	1.0	0.0	#DIV/0!
1	1	0	AACTTTGTAT	3701	1.0	0.0	0.0
0	1	1	AAGAAAGAAC	3702	#DIV/0!	1.0	0.0
1	0	1	AAGAAATTCC	3703	0.0	#DIV/0!	1.0
1	1	0	AAGAAGAAGA	3704	1.0	0.0	0.0
1	1	0	AAGACCTGGC	3705	1.0	0.0	0.0
0	2	0	AAGACTGTGG	3706	#DIV/0!	0.0	#DIV/0!
1	1	0	AAGAGAGTCA	3707	1.0	0.0	0.0
1	0	1	AAGGCCAGA	3708	0.0	#DIV/0!	1.0
1	0	1	AAGGGGATTG	3709	0.0	#DIV/0!	1.0
2	0	0	AAGATCATCG	3710	0.0	#DIV/0!	0.0
0	1	1	AAGATGAAGA	3711	#DIV/0!	1.0	#DIV/0!
0	1	1	AAGATGAAGG	3712	#DIV/0!	1.0	#DIV/0!
1	0	1	AAGATGAGTT	3713	0.0	#DIV/0!	1.0
0	1	1	AAGATGGAAT	3714	#DIV/0!	1.0	#DIV/0!
2	0	0	AAGATTGGAC	3715	0.0	#DIV/0!	0.0
1	0	1	AAGCAAACTG	3716	0.0	#DIV/0!	1.0
0	0	2	AAGCCATTCA	3717	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAGCCTTAGC	3718	#DIV/0!	1.0	#DIV/0!
0	1	1	AAGGGCACAA	3719	#DIV/0!	1.0	#DIV/0!
1	1	0	AAGCTATTCA	3720	1.0	0.0	0.0
1	1	0	AAGCTTCATC	3721	1.0	0.0	0.0
1	1	0	AAGGACTTGC	3722	1.0	0.0	0.0

Table 5, cont.

1	1	0	AAGGACCTTA	3723	1.0	0.0	0.0
2	0	0	AAGGGAGCAC	3724	0.0	#DIV/0!	0.0
2	2	0	AAGGGAGGGA	3725	0.0	#DIV/0!	0.0
0	0	2	AAGGATTCAAG	3726	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAGGCCAGAG	3727	#DIV/0!	1.0	#DIV/0!
0	2	0	AAGGCTAATG	3728	#DIV/0!	0.0	#DIV/0!
2	0	0	AAGGGTTTGG	3729	0.0	#DIV/0!	0.0
2	0	0	AAGTACCAATT	3730	0.0	#DIV/0!	0.0
1	0	1	AAGTCATTGG	3731	0.0	#DIV/0!	1.0
0	2	0	AAGTCCAACCT	3732	#DIV/0!	0.0	#DIV/0!
0	1	1	AAGTCTACAT	3733	#DIV/0!	1.0	#DIV/0!
1	0	1	AAGTCTCAGC	3734	0.0	#DIV/0!	1.0
0	1	1	AAGTTGATGAA	3735	#DIV/0!	1.0	#DIV/0!
1	1	0	AAGTGGAGGA	3736	1.0	0.0	0.0
1	1	0	AAGTGGTTTA	3737	0.0	#DIV/0!	1.0
1	0	1	AAGTTACAAT	3738	0.0	#DIV/0!	1.0
0	2	0	AAGTTATAGT	3739	#DIV/0!	0.0	#DIV/0!
1	1	0	AAGTTCTCCA	3740	1.0	0.0	0.0
0	0	2	AAGTTGAGGA	3741	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AAGTTGCAAC	3742	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AAGTTGGCTA	3743	#DIV/0!	0.0	#DIV/0!
0	0	2	AAGTTGGATC	3744	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	AAGTTTTTTT	3745	0.0	#DIV/0!	1.0
0	1	1	AATAAAGACA	3746	#DIV/0!	1.0	#DIV/0!
0	2	0	AATACCAATG	3747	#DIV/0!	0.0	#DIV/0!
0	1	1	AATACGCATA	3748	#DIV/0!	1.0	#DIV/0!
0	2	0	AATACGTTAC	3749	#DIV/0!	0.0	#DIV/0!
1	1	0	AATAGAGGAT	3750	1.0	0.0	0.0

Table 5, cont.

0	1	1	AATAGCAGCA	3751	#DIV/0!	1.0	#DIV/0!
1	1	0	AATAGCCTCA	3752	1.0	0.0	0.0
-1	1	0	AATATATA	3753	1.0	0.0	0.0
0	1	1	AATATCAAGG	3754	#DIV/0!	1.0	#DIV/0!
0	1	1	AATATGACGA	3755	#DIV/0!	1.0	#DIV/0!
0	1	1	AATATTATT	3756	#DIV/0!	1.0	#DIV/0!
-1	0	1	AATCAATAAA	3757	0.0	#DIV/0!	#DIV/0!
0	0	1	AATCCAGGTG	3758	#DIV/0!	1.0	1.0
0	1	1	AATCCATCC	3759	#DIV/0!	1.0	#DIV/0!
0	0	2	AATCCAGTT	3760	#DIV/0!	1.0	#DIV/0!
0	0	1	AATCGAGAAA	3761	#DIV/0!	1.0	#DIV/0!
-1	1	0	AATCTACTTT	3762	1.0	0.0	0.0
1	1	0	AATGAAACAA	3763	0.0	#DIV/0!	0.0
1	1	0	AATGAAAGAAC	3764	0.0	#DIV/0!	1.0
1	1	0	AATGACTTAT	3765	1.0	0.0	1.0
0	1	1	AATGGGGAAA	3766	#DIV/0!	1.0	#DIV/0!
0	2	0	AATGGGGTTT	3767	#DIV/0!	1.0	#DIV/0!
0	2	0	AATGTAATAT	3768	#DIV/0!	0.0	#DIV/0!
2	0	0	AATGTACAGA	3769	0.0	#DIV/0!	0.0
0	1	1	AATGTATAAC	3770	#DIV/0!	1.0	#DIV/0!
0	1	1	AATGTGCACT	3771	#DIV/0!	1.0	#DIV/0!
0	1	1	AATGTGCTGT	3772	#DIV/0!	1.0	#DIV/0!
0	2	0	AATGTGGAAC	3773	#DIV/0!	0.0	#DIV/0!
1	1	0	AATTAAGATC	3774	1.0	0.0	0.0
1	0	1	AATTATTGAA	3775	0.0	#DIV/0!	0.0
2	0	0	AATTAGGTC	3776	0.0	#DIV/0!	1.0
0	2	0	AATTCCCTT	3777	#DIV/0!	0.0	0.0
0	2	0	AATTGAAAAA	3778	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	1	0	AATTGAAGTA	3779	1.0	0.0	0.0
1	1	0	AATTGGCGAA	3780	1.0	0.0	0.0
0	2	0	AATTGGTCA	3781	#DIV/0!	0.0	#DIV/0!
1	1	0	AATTAAAGAC	3782	1.0	0.0	0.0
0	0	2	AATTTCACAG	3783	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AATTGGTGG	3784	#DIV/0!	0.0	#DIV/0!
0	1	1	AATTTCGGA	3785	#DIV/0!	1.0	#DIV/0!
0	2	0	ACAAGAAAAG	3786	#DIV/0!	0.0	#DIV/0!
1	0	1	ACAATGGGT	3787	0.0	#DIV/0!	#DIV/0!
1	-1	0	ACAAGAACTT	3788	1.0	0.0	1.0
0	1	1	ACAAGCCAA	3789	#DIV/0!	0.0	0.0
1	1	0	ACAAGGAACT	3790	1.0	1.0	#DIV/0!
1	1	0	ACAATAGATT	3791	1.0	0.0	0.0
0	0	2	ACAATGATGA	3792	#DIV/0!	0.0	0.0
1	1	0	ACACATCATA	3793	1.0	0.0	#DIV/0!
0	2	0	ACACCAACAG	3794	#DIV/0!	0.0	0.0
1	0	1	ACACCGAAG	3795	0.0	#DIV/0!	#DIV/0!
1	0	1	ACACCCAAGG	3796	0.0	#DIV/0!	1.0
1	1	0	ACACGTAAA	3797	1.0	0.0	1.0
0	2	0	ACACGTACAA	3798	#DIV/0!	0.0	0.0
0	1	1	ACAGAAAAAA	3799	#DIV/0!	0.0	#DIV/0!
0	2	0	ACAGAAATATC	3800	#DIV/0!	1.0	#DIV/0!
2	0	0	ACAGATTCTT	3801	0.0	0.0	#DIV/0!
0	1	1	ACAGGCACCC	3802	#DIV/0!	0.0	#DIV/0!
2	0	0	ACAGGCTTGC	3803	0.0	#DIV/0!	1.0
1	0	1	ACATACCTGG	3804	0.0	#DIV/0!	0.0
0	0	2	ACATCACTGA	3805	#DIV/0!	#DIV/0!	1.0
0	2	0	ACATCATTAC	3806	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	ACCAAAATGT	3807	#DIV/0!	0.0		#DIV/0!
1	0	1	ACCAACAAGA	3808	0.0		#DIV/0!	1.0
1	0	1	ACCGAACCGAG	3809	0.0		#DIV/0!	1.0
1	1	0	ACCGGGTCCCT	3810	1.0	0.0		0.0
0	2	0	ACCATCGAAT	3811	#DIV/0!	0.0		#DIV/0!
0	1	1	ACCCAAGCAA	3812	#DIV/0!	0.0		#DIV/0!
0	2	0	ACCCCCTACA	3813	#DIV/0!	1.0		#DIV/0!
2	0	0	ACCGAATTG	3814	0.0		#DIV/0!	#DIV/0!
0	2	0	ACCGCAAAGA	3815	#DIV/0!	0.0		#DIV/0!
1	0	1	ACCGCATTAG	3816	0.0		#DIV/0!	1.0
2	0	0	ACCGGCCTAGG	3817	0.0		#DIV/0!	0.0
2	0	0	ACCGGACGTT	3818	0.0		#DIV/0!	0.0
1	0	1	ACCGTTACAT	3819	0.0		#DIV/0!	0.0
1	1	0	ACCGTTGTGC	3820	1.0	0.0		1.0
0	1	1	ACCTATAATT	3821	#DIV/0!	1.0		0.0
0	0	2	ACCTTTTAG	3822	#DIV/0!		#DIV/0!	
0	0	2	ACGAAATAGA	3823	#DIV/0!		#DIV/0!	
1	1	0	ACGAACACTT	3824	1.0	0.0		#DIV/0!
0	0	2	ACGAAGGACT	3825	#DIV/0!		#DIV/0!	0.0
0	1	1	ACGAATTAAA	3826	#DIV/0!	1.0		#DIV/0!
1	1	0	ACGAATTGTG	3827	1.0	0.0		#DIV/0!
1	1	0	ACGATGCCAA	3828	1.0	0.0		0.0
0	1	1	ACGATTGGCT	3829	#DIV/0!	1.0		0.0
1	1	0	ACGGAGCCAG	3830	1.0	0.0		#DIV/0!
0	0	2	ACGCCGCCAA	3831	#DIV/0!			0.0
0	1	1	ACGCTGTATT	3832	#DIV/0!		#DIV/0!	
0	1	1	ACGCTGGAT	3833	#DIV/0!	1.0		#DIV/0!
0	0	2	ACGGACTTCT	3834	#DIV/0!	1.0		#DIV/0!

Table 5, cont.

0	1	1	ACGGCAAATA	3835	#DIV/0!	1.0	#DIV/0!
0	2	0	ACGGTCAGGG	3836	#DIV/0!	0.0	#DIV/0!
-1	1	0	ACGTATTATG	3837	1.0	0.0	0.0
0	0	2	ACGTCATGAA	3838	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	ACGTCTTTT	3839	#DIV/0!	1.0	#DIV/0!
-1	1	0	ACGTGCCAGTA	3840	1.0	0.0	#DIV/0!
-1	1	0	ACGTTATATA	3841	1.0	0.0	0.0
1	0	1	ACGTCAAAAT	3842	0.0	#DIV/0!	0.0
0	2	0	ACTAAGACAT	3843	#DIV/0!	0.0	1.0
-1	0	1	ACTAATGACG	3844	0.0	#DIV/0!	#DIV/0!
0	1	1	ACTAGGCCAC	3845	#DIV/0!	1.0	#DIV/0!
0	1	1	ACTATATGTT	3846	#DIV/0!	1.0	#DIV/0!
0	2	0	ACTATTCTGT	3847	#DIV/0!	1.0	#DIV/0!
0	1	1	ACTCAAAAG	3848	#DIV/0!	0.0	#DIV/0!
0	1	1	ACTCCCTGTA	3849	#DIV/0!	1.0	#DIV/0!
1	1	0	ACTCCCTGGAA	3850	1.0	1.0	#DIV/0!
1	0	1	ACTCTCTGTTG	3851	0.0	#DIV/0!	0.0
-1	0	1	ACTCTTACTT	3852	0.0	#DIV/0!	1.0
0	0	2	ACTCTTTCTG	3853	#DIV/0!	#DIV/0!	1.0
0	2	0	ACTGAAAAAA	3854	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ACTGAGTGTC	3855	#DIV/0!	0.0	#DIV/0!
0	2	0	ACTGCATCTG	3856	#DIV/0!	0.0	#DIV/0!
0	2	0	ACTGCTATT	3857	#DIV/0!	0.0	#DIV/0!
0	2	0	ACTGCTGATA	3858	#DIV/0!	0.0	#DIV/0!
2	0	0	ACTGTTATG	3859	0.0	#DIV/0!	0.0
1	1	0	ACTTAAAAAA	3860	1.0	0.0	0.0
0	2	0	ACTTATATCT	3861	#DIV/0!	0.0	0.0
2	0	0	ACTTATTAA	3862	0.0	#DIV/0!	0.0

Table 5, cont.

1	1	0	ACTCTGGTC	3863	1.0	0.0	0.0
0	1	1	ACTTGATATA	3864	#DIV/0!	1.0	#DIV/0!
0	1	1	ACTTGCCTTA	3865	#DIV/0!	1.0	#DIV/0!
0	0	2	ACTTGGTAG	3866	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACTTTCTAAT	3867	1.0	0.0	0.0
1	1	0	ACTTTAAC	3868	1.0	0.0	0.0
0	2	0	AGAAAAAAAC	3869	#DIV/0!	0.0	#DIV/0!
0	0	2	AGAAACAAGT	3870	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGAAAGCTAT	3871	1.0	0.0	0.0
0	1	1	AGAAAGTCAG	3872	#DIV/0!	1.0	#DIV/0!
0	1	1	AGAAATATGT	3873	#DIV/0!	1.0	#DIV/0!
1	0	1	AGAAATTGG	3874	0.0	#DIV/0!	1.0
0	1	1	AGAACATAAC	3875	#DIV/0!	1.0	#DIV/0!
0	2	0	AGAAGAACCA	3876	#DIV/0!	0.0	#DIV/0!
1	0	1	AGAAGGGCTA	3877	0.0	#DIV/0!	1.0
2	0	0	AGAATTGATT	3878	0.0	#DIV/0!	0.0
0	0	2	AGACAAACCG	3879	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	AGACAAACTC	3880	0.0	#DIV/0!	0.0
1	0	1	AGACAACTGA	3881	0.0	#DIV/0!	1.0
0	0	2	AGACAGGCCA	3882	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGACCAAGTGC	3883	1.0	0.0	0.0
0	0	2	AGACCTGCC	3884	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AGAGAGCAAG	3885	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AGAGAGGTAT	3886	#DIV/0!	1.0	#DIV/0!
1	1	0	AGAGCAGCTG	3887	1.0	0.0	0.0
2	0	0	AGAGGGAATT	3888	0.0	#DIV/0!	0.0
0	0	2	AGAGGGATGA	3889	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AGAGTATT	3890	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

2	0	0	AGAGTTTAC	3891	0.0	#DIV/0!	0.0
0	1	1	AGATACTGAC	3892	0.0	#DIV/0!	1.0
1	0	1	AGATATGGAT	3893	0.0	#DIV/0!	1.0
0	2	0	AGATCGAGGA	3894	0.0	#DIV/0!	0.0
0	1	1	AGATTGTGCC	3895	0.0	#DIV/0!	1.0
2	0	0	AGCAAAGAA	3896	0.0	#DIV/0!	#DIV/0!
2	0	0	AGCAAATTTT	3897	0.0	#DIV/0!	0.0
1	0	1	AGCACACGCT	3898	0.0	#DIV/0!	0.0
0	1	1	AGCACCTATG	3899	0.0	#DIV/0!	1.0
0	1	1	AGCACTCCCT	3900	0.0	#DIV/0!	#DIV/0!
2	0	0	AGCATATCAA	3901	0.0	#DIV/0!	0.0
0	1	1	AGCCATAATT	3902	0.0	#DIV/0!	#DIV/0!
1	1	0	AGCCCACGGC	3903	1.0	0.0	0.0
0	0	2	AGCCGGTTT	3904	0.0	#DIV/0!	#DIV/0!
0	0	2	AGCGAATGTA	3905	0.0	#DIV/0!	#DIV/0!
0	2	0	AGCGTTTGAT	3906	0.0	#DIV/0!	#DIV/0!
1	1	0	AGCTATCTT	3907	1.0	0.0	0.0
0	1	1	AGCTATTATA	3908	0.0	#DIV/0!	#DIV/0!
2	0	0	AGAAAAAGA	3909	0.0	#DIV/0!	#DIV/0!
0	0	2	AGGAAGCAAG	3910	0.0	#DIV/0!	#DIV/0!
0	0	2	AGGACACTCA	3911	0.0	#DIV/0!	#DIV/0!
2	0	0	AGGAAACAC	3912	0.0	#DIV/0!	0.0
2	0	0	AGGGGTAT	3913	0.0	#DIV/0!	0.0
0	2	0	AGGATCCGAA	3914	0.0	#DIV/0!	0.0
0	1	1	AGGCAAGAGA	3915	0.0	#DIV/0!	#DIV/0!
1	0	1	AGGCAGGGCT	3916	0.0	#DIV/0!	#DIV/0!
1	0	1	AGGCCGTTT	3917	0.0	#DIV/0!	1.0
0	0	2	AGGCTGCAGT	3918	0.0	#DIV/0!	1.0
							#DIV/0!

Table 5, cont.

0	1	1	AGGGTCATTC	3919	#DIV/0!	1.0	#DIV/0!
0	2	0	AGGGTCTTG	3920	#DIV/0!	0.0	#DIV/0!
1	1	0	AGGTAGGGTG	3921	1.0	0.0	0.0
1	0	1	AGGTATGCAC	3922	0.0	#DIV/0!	1.0
1	1	0	AGGTCTATGG	3923	1.0	0.0	0.0
0	1	1	AGGTGCAAA	3924	#DIV/0!	1.0	#DIV/0!
0	1	1	AGGTGCATCA	3925	#DIV/0!	1.0	#DIV/0!
0	0	2	AGGTGGTTAA	3926	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AGGTTCAAA	3927	#DIV/0!	0.0	#DIV/0!
0	1	1	AGGTGACAT	3928	#DIV/0!	1.0	#DIV/0!
0	1	1	AGTATAGCTA	3929	#DIV/0!	1.0	#DIV/0!
0	2	0	AGTGACCGATG	3930	#DIV/0!	0.0	#DIV/0!
0	1	1	AGTGACTTAC	3931	#DIV/0!	1.0	#DIV/0!
0	0	2	AGTGATTGTT	3932	#DIV/0!	#DIV/0!	#DIV/0!
-2	0	0	AGTGCCAATG	3933	0.0	#DIV/0!	0.0
0	1	1	AGTGGAAAAG	3934	#DIV/0!	1.0	#DIV/0!
2	0	0	AGTGTGTCTA	3935	0.0	#DIV/0!	0.0
0	1	1	AGTGTAAACG	3936	#DIV/0!	1.0	#DIV/0!
1	0	1	AGTTATCCC	3937	0.0	#DIV/0!	1.0
0	2	0	AGTTGTATCC	3938	#DIV/0!	0.0	#DIV/0!
1	0	1	AGTTTCAAAA	3939	0.0	#DIV/0!	1.0
0	1	1	AGTTTGGTT	3940	#DIV/0!	1.0	#DIV/0!
2	0	0	AGTTTCCCTG	3941	0.0	#DIV/0!	0.0
1	1	0	ATAAAATCCT	3942	1.0	0.0	0.0
2	0	0	ATAAAACCACT	3943	0.0	#DIV/0!	0.0
0	0	2	ATAAAACCTGA	3944	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	ATAACACCTC	3945	0.0	#DIV/0!	1.0
1	0	1	ATAAACTTCGG	3946	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	1	ATAAGACGGC	3947	#DIV/0!	1.0	#DIV/0!
1	-1	0	ATAAGTAAAA	3948	1.0	0.0	0.0
0	2	0	ATAAGTGTGC	3949	#DIV/0!	0.0	#DIV/0!
1	1	0	ATAATAATGG	3950	1.0	0.0	0.0
0	1	1	ATAATGATAC	3951	#DIV/0!	1.0	#DIV/0!
2	0	0	ATAATTGGAG	3952	0.0	#DIV/0!	#DIV/0!
1	1	0	ATAAATTTT	3953	1.0	0.0	0.0
0	1	1	ATACAGATTC	3954	#DIV/0!	1.0	#DIV/0!
2	0	0	ATACATCGCA	3955	0.0	#DIV/0!	#DIV/0!
0	2	0	ATACCAAGTT	3956	#DIV/0!	0.0	#DIV/0!
0	0	2	ATACCCAATT	3957	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATACGTGTAC	3958	1.0	0.0	0.0
1	-1	0	ATACTTGAAT	3959	1.0	0.0	0.0
-1	1	0	ATAGCAAAGG	3960	1.0	0.0	0.0
1	1	0	ATAGTACAGA	3961	1.0	0.0	0.0
0	1	1	ATAGTAGATG	3962	#DIV/0!	1.0	#DIV/0!
1	1	0	ATATAAAAAA	3963	1.0	0.0	0.0
1	-1	0	ATATAGACGC	3964	1.0	0.0	0.0
1	0	1	ATATATAATC	3965	0.0	#DIV/0!	0.0
0	1	1	ATATATTGTA	3966	#DIV/0!	1.0	#DIV/0!
1	0	1	ATATCCCTAC	3967	0.0	#DIV/0!	1.0
0	1	1	ATATGACGTC	3968	#DIV/0!	1.0	#DIV/0!
1	1	0	ATATTGAATC	3969	1.0	0.0	0.0
0	0	2	ATCAACGGGG	3970	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	ATCACAGTAT	3971	#DIV/0!	1.0	#DIV/0!
0	0	2	ATCACCTATT	3972	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	ATCACTGGGT	3973	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	ATCACTGGTT	3974	0.0	#DIV/0!	1.0

Table 5, cont.

0	0	2	ATCAGAATGC	3975	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ATCATATAATCA	3976	#DIV/0!	0.0	#DIV/0!
0	2	0	ATCATTTGCAA	3977	#DIV/0!	0.0	#DIV/0!
0	2	0	ATCAATTAT	3978	#DIV/0!	0.0	#DIV/0!
2	0	0	ATCOAGTTGA	3979	0.0	#DIV/0!	0.0
0	2	0	ATCGGCCAGA	3980	#DIV/0!	0.0	#DIV/0!
1	0	1	ATCCCTTCAGG	3981	0.0	#DIV/0!	1.0
0	1	1	ATCGCGATTG	3982	#DIV/0!	1.0	#DIV/0!
0	0	2	ATCGGGGCTC	3983	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	ATCGGGGGTC	3984	0.0	#DIV/0!	1.0
0	1	1	ATCTAAATAAT	3985	#DIV/0!	1.0	#DIV/0!
0	0	2	ATCTCTTGAG	3986	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	ATCTGTATGT	3987	0.0	#DIV/0!	0.0
1	0	1	ATCTTTAAC	3988	0.0	#DIV/0!	1.0
0	2	0	ATCTTTATCA	3989	#DIV/0!	0.0	#DIV/0!
1	0	1	ATCTTTCACC	3990	0.0	#DIV/0!	1.0
2	0	0	ATGAACTTAT	3991	0.0	#DIV/0!	0.0
1	1	0	ATGAACTTGT	3992	1.0	0.0	0.0
1	0	1	ATGAAGACGT	3993	0.0	#DIV/0!	0.0
0	1	1	ATGAAGGTG	3994	#DIV/0!	1.0	#DIV/0!
1	1	0	ATGACCCCCAA	3995	1.0	0.0	0.0
1	1	0	ATGACGATGA	3996	1.0	0.0	0.0
0	1	1	ATGACGCTAA	3997	#DIV/0!	1.0	#DIV/0!
0	1	1	ATGACGTGGA	3998	#DIV/0!	1.0	#DIV/0!
1	0	1	ATGAGCATT	3999	0.0	#DIV/0!	1.0
1	0	1	ATGAGCTTA	4000	0.0	#DIV/0!	1.0
0	0	2	ATGAGGGCT	4001	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGAGTTATT	4002	1.0	0.0	0.0

Table 5, cont.

1	0	1	ATGAGTTGG	4003	0.0	#DIV/0!	1.0
0	2	0	ATGATGGCAC	4004	#DIV/0!	0.0	#DIV/0!
0	1	1	ATGATGTGAT	4005	#DIV/0!	1.0	#DIV/0!
-1	1	0	ATGATTGGTA	4006	1.0	0.0	0.0
0	1	1	ATGAAAAAA	4007	#DIV/0!	1.0	#DIV/0!
2	0	0	ATGAAAGAA	4008	0.0	#DIV/0!	0.0
0	2	0	ATGCAGAGTA	4009	#DIV/0!	0.0	#DIV/0!
0	2	0	ATGCATTATG	4010	#DIV/0!	0.0	#DIV/0!
1	0	1	ATGCTATGTC	4011	0.0	#DIV/0!	1.0
0	0	2	ATGCTGGAGT	4012	#DIV/0!	#DIV/0!	0.0
0	2	0	ATGCTGTTAA	4013	#DIV/0!	0.0	#DIV/0!
0	1	1	ATGGAACCTG	4014	#DIV/0!	1.0	#DIV/0!
-1	1	0	ATGGAGCATC	4015	1.0	0.0	#DIV/0!
1	0	1	ATGGAGGTC	4016	0.0	#DIV/0!	0.0
0	2	0	ATGGCTCAGT	4017	#DIV/0!	0.0	#DIV/0!
0	1	1	ATGGGATAAA	4018	#DIV/0!	1.0	#DIV/0!
-1	1	0	ATGGTTTAA	4019	1.0	0.0	#DIV/0!
-1	1	0	ATGTAATGG	4020	1.0	0.0	0.0
-1	1	0	ATGTCAAAGTG	4021	1.0	0.0	0.0
0	0	2	ATGTCAGTGA	4022	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ATTAATAAAA	4023	#DIV/0!	0.0	#DIV/0!
0	2	0	ATTAATATGA	4024	#DIV/0!	0.0	#DIV/0!
0	1	1	ATTAATGACC	4025	#DIV/0!	1.0	#DIV/0!
0	0	2	ATTACTGCCA	4026	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATTATTCTTG	4027	1.0	0.0	0.0
1	0	1	ATTACAGTAT	4028	0.0	#DIV/0!	1.0
1	1	0	ATCCCCGTGG	4029	1.0	0.0	0.0
0	1	1	ATCCCTTGCA	4030	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	1	ATTGGTAAAG	4031	#DIV/0!	1.0	#DIV/0!
1	0	ATTCTGGATC	4032	0.0	#DIV/0!	1.0
2	0	ATTGAAAAAA	4033	0.0	#DIV/0!	0.0
2	0	ATTGAGCAAA	4034	0.0	#DIV/0!	0.0
0	2	ATTGATGGGG	4035	#DIV/0!	0.0	#DIV/0!
1	0	ATTGGGCCCT	4036	0.0	#DIV/0!	1.0
1	1	ATTGGGCTTA	4037	1.0	0.0	0.0
0	1	ATTGGGTCT	4038	#DIV/0!	1.0	#DIV/0!
0	2	ATTGCCTACTT	4039	#DIV/0!	0.0	#DIV/0!
0	1	ATTGCTTTAC	4040	#DIV/0!	0.0	#DIV/0!
0	2	ATTGAAAAAA	4041	#DIV/0!	1.0	#DIV/0!
2	0	ATTGAGTAA	4042	0.0	#DIV/0!	#DIV/0!
0	2	ATTGGA T G	4043	#DIV/0!	0.0	0.0
0	2	ATTGTTAAC	4044	#DIV/0!	0.0	#DIV/0!
1	0	ATTGTTGGCA	4045	0.0	#DIV/0!	1.0
0	1	ATTAAAAACA	4046	#DIV/0!	1.0	#DIV/0!
0	2	ATTAAATACC	4047	#DIV/0!	0.0	#DIV/0!
0	1	ATTCCCTAA	4048	#DIV/0!	1.0	#DIV/0!
0	2	ATTGGAAAC	4049	#DIV/0!	0.0	#DIV/0!
2	0	ATTGGTATAT	4050	0.0	#DIV/0!	1.0
1	1	ATTTTATATA	4051	1.0	0.0	0.0
0	2	ATTTTGAAAA	4052	#DIV/0!	0.0	#DIV/0!
0	1	ATTTTTGCTA	4053	#DIV/0!	1.0	#DIV/0!
0	0	ATTTTTCT	4054	#DIV/0!	0.0	#DIV/0!
2	0	ATTTTTTT	4055	0.0	#DIV/0!	0.0
0	1	CAAAAAGTCG	4056	#DIV/0!	1.0	#DIV/0!
0	0	CAAAACCCCTA	4057	#DIV/0!	#DIV/0!	#DIV/0!
1	1	CAAACTTTC	4058	1.0	0.0	0.0

Table 5, cont.

1	0	CAAATAAGTG	4059	0.0	#DIV/0!	1.0
0	1	CAAATGAGAA	4060	#DIV/0!	1.0	#DIV/0!
0	1	CAAATGCCATT	4061	#DIV/0!	1.0	#DIV/0!
0	1	CAAATTGGTGT	4062	#DIV/0!	1.0	#DIV/0!
0	1	CAACAAATGGC	4063	#DIV/0!	1.0	#DIV/0!
1	-1	CAACCAGTTA	4064	1.0	0.0	#DIV/0!
0	1	CAACTAGCAA	4065	#DIV/0!	1.0	0.0
1	0	CAAGAAGAAA	4066	0.0	#DIV/0!	#DIV/0!
0	1	CAAGGAAGGGC	4067	#DIV/0!	1.0	1.0
0	1	CAAGACCAGT	4068	#DIV/0!	1.0	#DIV/0!
1	0	CAAGATGAAA	4069	0.0	#DIV/0!	1.0
1	1	CAAGCGTGCA	4070	1.0	0.0	#DIV/0!
0	1	CAAGCTTCT	4071	#DIV/0!	1.0	0.0
0	2	CAAGTAGATA	4072	#DIV/0!	0.0	#DIV/0!
2	0	CAAGTTAAAA	4073	0.0	#DIV/0!	#DIV/0!
0	0	CAAGTTAGGA	4074	#DIV/0!	0.0	#DIV/0!
0	2	CAATATTCAA	4075	#DIV/0!	0.0	#DIV/0!
1	1	CAATGAATGA	4076	1.0	0.0	0.0
0	2	CAATGTATAT	4077	#DIV/0!	0.0	#DIV/0!
0	1	CAATTATTA	4078	#DIV/0!	1.0	#DIV/0!
1	0	CAATTGGCAA	4079	0.0	#DIV/0!	1.0
1	0	CACAAAAGGA	4080	0.0	#DIV/0!	1.0
2	0	CACAACCTACA	4081	0.0	#DIV/0!	0.0
0	0	CACACCAAGC	4082	#DIV/0!	#DIV/0!	#DIV/0!
1	0	CACACCAGGA	4083	#DIV/0!	1.0	#DIV/0!
1	0	CACACGCTCA	4084	0.0	#DIV/0!	1.0
1	1	CACAGTACCT	4085	1.0	0.0	0.0
1	0	CACATAATCT	4086	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	1	CACATCCCTCA	4087	#DIV/0!	1.0	#DIV/0!
1	1	0	CACCAAGTGTAA	4088	1.0	0.0	0.0
2	0	0	CACCTATGAA	4089	0.0	#DIV/0!	0.0
2	0	0	CACGGATCGAC	4090	0.0	#DIV/0!	0.0
0	1	1	CACTAACCCAG	4091	#DIV/0!	1.0	#DIV/0!
0	1	1	CACTATTAGC	4092	#DIV/0!	1.0	#DIV/0!
0	1	1	CACTGTCTCC	4093	#DIV/0!	1.0	#DIV/0!
2	0	0	CACTTTATAA	4094	0.0	#DIV/0!	0.0
0	1	1	CAGAAATTCA	4095	#DIV/0!	1.0	#DIV/0!
0	0	2	CAGACTTGGC	4096	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	CAGGAGCGCT	4097	0.0	#DIV/0!	0.0
0	0	2	CAGATGATAA	4098	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CAGGAACTAC	4099	1.0	0.0	0.0
1	0	1	CAGCTACTCA	4100	0.0	#DIV/0!	1.0
0	0	2	CAGCTTATGG	4101	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CAGGATAAAC	4102	0.0	#DIV/0!	1.0
0	2	0	CAGGTTTAGC	4103	#DIV/0!	0.0	#DIV/0!
1	0	1	CAGTACAAAC	4104	0.0	#DIV/0!	1.0
2	0	0	CATAAAAAAA	4105	0.0	#DIV/0!	0.0
0	1	1	CATACAGCAA	4106	#DIV/0!	1.0	#DIV/0!
0	2	0	CATACTCTAT	4107	#DIV/0!	0.0	#DIV/0!
1	1	0	CATAGAAAAAA	4108	1.0	0.0	0.0
1	1	0	CATAGAAAGT	4109	1.0	0.0	0.0
0	1	1	CATAGAAGTG	4110	#DIV/0!	1.0	#DIV/0!
1	1	0	CATAGATCAA	4111	1.0	0.0	0.0
0	0	2	CATAGGGGGT	4112	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CATAGTGAA	4113	1.0	0.0	0.0
1	1	0	CATAGTTAT	4114	1.0	0.0	0.0

Table 5, cont.

1	0	1	CATCAAGGGC	4115	0.0	#DIV/0!	1.0
2	0	0	CATCACCAAT	4116	0.0	#DIV/0!	0.0
-1	1	0	CATACCACATC	4117	1.0	0.0	0.0
-1	0	1	CATCCTCTCG	4118	0.0	#DIV/0!	1.0
-1	1	0	CATTAATATA	4119	1.0	0.0	0.0
-1	0	1	CATTCAAAGG	4120	0.0	#DIV/0!	0.0
0	0	2	CATTCTGAAT	4121	#DIV/0!	#DIV/0!	1.0
1	0	1	CATTTCACAC	4122	0.0	#DIV/0!	#DIV/0!
1	1	0	CCAAAACTTT	4123	1.0	#DIV/0!	1.0
-1	1	0	CCAACAGGGT	4124	1.0	0.0	0.0
-1	0	1	CCAACGAAAA	4125	0.0	#DIV/0!	0.0
-1	0	1	CCAACGTTT	4126	0.0	#DIV/0!	1.0
-1	0	1	CCAAAGGGGT	4127	0.0	#DIV/0!	1.0
0	0	2	CCAAGGGGTC	4128	#DIV/0!	#DIV/0!	1.0
-1	0	1	CCAAGGTCTCG	4129	0.0	#DIV/0!	#DIV/0!
-1	1	0	CCACATTCA	4130	1.0	#DIV/0!	1.0
2	0	0	CCACGGGTCT	4131	0.0	#DIV/0!	0.0
-1	1	0	CCAGAAAGAAA	4132	1.0	0.0	0.0
-1	1	0	CCAGAAATAGA	4133	1.0	0.0	0.0
0	1	1	CCAGACAGTG	4134	#DIV/0!	1.0	#DIV/0!
0	0	2	CCAGATATGC	4135	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	1	CCAGGGCGTA	4136	0.0	#DIV/0!	1.0
0	0	2	CCAGGTAATT	4137	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	CCATAAAAGC	4138	1.0	0.0	0.0
0	2	0	CCATATAGAC	4139	#DIV/0!	0.0	#DIV/0!
0	1	1	CCATCTTTA	4140	#DIV/0!	1.0	#DIV/0!
-1	1	0	CCATTAAATA	4141	1.0	0.0	0.0
2	0	0	CCATTAGAAT	4142	0.0	#DIV/0!	0.0

Table 5, cont.

2	0	0	CCATTCCAAC	4143	0.0	#DIV/0!	0.0
2	0	0	CCATTGTTCC	4144	0.0	#DIV/0!	0.0
0	2	0	CCATTTGGT	4145	#DIV/0!	0.0	#DIV/0!
0	1	1	CCCAGATTTG	4146	#DIV/0!	1.0	#DIV/0!
0	2	0	CCCATAGTGG	4147	#DIV/0!	0.0	#DIV/0!
1	1	0	CCCCAAGTGG	4148	1.0	0.0	0.0
0	1	1	CCCGGATGTT	4149	#DIV/0!	1.0	#DIV/0!
1	1	0	CCCTAGCGCG	4150	1.0	0.0	0.0
0	1	1	CCGAATAAGG	4151	#DIV/0!	1.0	#DIV/0!
0	0	2	CCGACGGCAG	4152	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	CCGATGATGG	4153	0.0	#DIV/0!	0.0
0	2	0	CCGCCTTCCC	4154	#DIV/0!	0.0	#DIV/0!
1	0	1	CCGGCGCTGGG	4155	0.0	#DIV/0!	1.0
0	2	0	CCGGAAGAGC	4156	#DIV/0!	0.0	#DIV/0!
0	1	1	CCGTGGTGC	4157	#DIV/0!	1.0	#DIV/0!
2	0	0	CCGTTTCTTT	4158	0.0	#DIV/0!	0.0
2	0	0	CCTAAAAAA	4159	0.0	#DIV/0!	0.0
2	0	0	CCTAAGCACT	4160	0.0	#DIV/0!	0.0
2	0	0	CCTACTTGGC	4161	0.0	#DIV/0!	0.0
1	0	1	CCTATTAAGC	4162	0.0	#DIV/0!	1.0
1	1	0	CCTCATCAAG	4163	1.0	0.0	0.0
1	0	1	CCTCCTAAAGC	4164	0.0	#DIV/0!	1.0
0	0	2	CCTCCAGAAC	4165	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CCTCTGGATA	4166	#DIV/0!	1.0	#DIV/0!
1	1	0	CCTCTTAAA	4167	1.0	0.0	0.0
0	1	1	CCTGTATTTT	4168	#DIV/0!	1.0	#DIV/0!
0	1	1	CCTGTTCGAG	4169	#DIV/0!	1.0	#DIV/0!
0	0	2	CCTTGAGAAT	4170	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	CCTTGTGGGA	4171	#DIV/0!	1.0	#DIV/0!
0	2	CCTTTCTAT	4172	#DIV/0!	0.0	#DIV/0!
1	0	CCTTTTCTA	4173	0.0	#DIV/0!	1.0
0	1	CGAAAGGAA	4174	#DIV/0!	1.0	#DIV/0!
0	1	CGAAACCAA	4175	#DIV/0!	1.0	#DIV/0!
2	0	CGAAAGCTTT	4176	0.0	#DIV/0!	#DIV/0!
0	1	CGAAAGTAAG	4177	#DIV/0!	1.0	#DIV/0!
0	1	CGACCTCACT	4178	#DIV/0!	1.0	#DIV/0!
1	1	CGACTATTGT	4179	1.0	0.0	#DIV/0!
0	0	CGAGGAATAT	4180	#DIV/0!	0.0	0.0
1	1	CGAGTATTCT	4181	1.0	0.0	#DIV/0!
2	0	CGATTGAATA	4182	0.0	#DIV/0!	0.0
1	1	CGATTGCAAA	4183	1.0	0.0	0.0
0	0	CGATTGGTG	4184	#DIV/0!	0.0	0.0
1	1	CGATTTTCAG	4185	1.0	0.0	#DIV/0!
1	1	CGCACCCCTGC	4186	1.0	0.0	0.0
0	1	CGCAGGTGAC	4187	#DIV/0!	0.0	0.0
1	0	CGCAGGTTAC	4188	0.0	#DIV/0!	1.0
0	0	CGCCCCCTGAG	4189	#DIV/0!	#DIV/0!	1.0
0	-1	CGCCCTATGGT	4190	#DIV/0!	1.0	#DIV/0!
0	0	CGCGAAACTT	4191	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CGCTAAATAA	4192	#DIV/0!	1.0	#DIV/0!
0	1	CGCTACGTTT	4193	#DIV/0!	1.0	#DIV/0!
0	0	CGCTCAGTTA	4194	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CGCTCTCAC	4195	#DIV/0!	1.0	#DIV/0!
1	0	CGGACACTT	4196	0.0	#DIV/0!	1.0
0	1	CGGCCATCCG	4197	#DIV/0!	1.0	#DIV/0!
0	1	CGGCCACAA	4198	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

-1	0	1	CGGGATCAAG	4199	0.0	#DIV/0!	1.0
-1	1	0	CGGGTATTG	4200	1.0	0.0	0.0
0	0	2	CGTAAGTT	4201	#DIV/0!	0.0	#DIV/0!
0	0	2	CGTCCTCT	4202	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGTGGACAG	4203	#DIV/0!	1.0	#DIV/0!
0	0	2	CGGTGTTAAC	4204	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CGTCACTGTG	4205	0.0	#DIV/0!	1.0
-1	1	0	CGTAGCTGT	4206	0.0	#DIV/0!	1.0
2	0	0	CGTCGGGTG	4207	0.0	#DIV/0!	0.0
0	1	1	CGTGAACCTCA	4208	#DIV/0!	1.0	#DIV/0!
2	0	0	CGTGAGTGC	4209	0.0	#DIV/0!	0.0
0	2	0	CGTGGTTCA	4210	#DIV/0!	0.0	#DIV/0!
0	2	0	CGTTAATAGA	4211	#DIV/0!	0.0	#DIV/0!
0	1	1	CGTTTGTAAA	4212	#DIV/0!	1.0	#DIV/0!
1	1	0	CGTTTGTGTA	4213	1.0	0.0	0.0
1	0	1	CGTTTCTGTC	4214	0.0	#DIV/0!	1.0
0	0	2	CGTTTTTCA	4215	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CTAAACAAAG	4216	#DIV/0!	1.0	#DIV/0!
2	0	0	CTAAATCTTG	4217	0.0	#DIV/0!	0.0
1	0	1	CTAACTAAGC	4218	0.0	#DIV/0!	1.0
-1	0	1	CTAAGAATGA	4219	0.0	#DIV/0!	1.0
-1	-1	0	CTAATACAAA	4220	1.0	0.0	1.0
-1	-1	1	CTAATATGTG	4221	0.0	#DIV/0!	0.0
-1	0	1	CTAATCACTG	4222	0.0	#DIV/0!	1.0
1	1	0	CTAATCATT	4223	1.0	0.0	0.0
0	1	1	CTACATAAAT	4224	#DIV/0!	1.0	#DIV/0!
0	1	1	CTACCAACTAC	4225	#DIV/0!	1.0	#DIV/0!
0	0	2	CTAGGGTTG	4226	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	1	0	CTATAAAACA	42227	1,0	0,0	0,0
0	1	1	CTATATATCA	42228	#DIV/0!	1,0	#DIV/0!
1	1	0	CTATGGCCA	42229	0,0	#DIV/0!	1,0
1	1	0	CTATGCCAA	4230	0,0	#DIV/0!	1,0
1	1	0	CTATTATGTA	4231	0,0	#DIV/0!	1,0
1	1	0	CTATTCTCA	4232	0,0	#DIV/0!	1,0
0	0	1	CTAAAACGTGC	4233	#DIV/0!	1,0	#DIV/0!
0	0	2	CTCAAATTGTA	4234	#DIV/0!	0,0	#DIV/0!
1	1	0	CTCACCGGAA	4235	0,0	#DIV/0!	1,0
1	1	0	CTCAGCAGCA	4236	1,0	0,0	0,0
0	0	1	CTCAGGATGTA	4237	#DIV/0!	1,0	#DIV/0!
0	0	1	CTCCAAAATG	4238	#DIV/0!	1,0	#DIV/0!
0	0	0	CTCCAGAAGA	4239	#DIV/0!	0,0	#DIV/0!
-1	1	0	CTCCATACAC	4240	1,0	0,0	#DIV/0!
1	1	0	CTCGTCACT	4241	1,0	0,0	0,0
1	1	0	CTCTAAATT	4242	1,0	0,0	0,0
1	1	0	CTCTACTTAT	4243	0,0	#DIV/0!	0,0
0	0	1	CTCTATTATT	4244	#DIV/0!	1,0	#DIV/0!
1	1	0	CTCTATTGAT	4245	1,0	0,0	0,0
0	1	1	CTCTCCAATC	4246	#DIV/0!	1,0	#DIV/0!
0	0	2	CTCTCCCCCA	4247	#DIV/0!	0,0	#DIV/0!
0	0	1	CTCTCCTATT	4248	#DIV/0!	1,0	#DIV/0!
1	1	1	CTCTGGTGC	4249	1,0	0,0	#DIV/0!
0	2	0	CTCTTAGTTG	4250	#DIV/0!	0,0	#DIV/0!
1	1	0	CTCTTGATT	4251	1,0	0,0	#DIV/0!
0	0	2	CTCTGGCAA	4252	#DIV/0!	0,0	#DIV/0!
1	1	0	CTGAAGGAAA	4253	1,0	0,0	#DIV/0!
1	0	1	CTGACACTAG	4254	0,0	#DIV/0!	0,0
							1,0

Table 5, cont.

0	2	0	CTGATAAAGG	4255	#DIV/0!	0.0	#DIV/0!
1	0	1	CTGATATCTT	4256	0.0	#DIV/0!	1.0
0	2	0	CTGATCCGGG	4257	#DIV/0!	0.0	#DIV/0!
1	1	0	CTGCACGAAT	4258	1.0	0.0	0.0
0	0	2	CTGCCGAAGA	4259	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	CTGCCTTCT	4260	#DIV/0!	0.0	#DIV/0!
2	0	0	CTGCGTTTAT	4261	0.0	#DIV/0!	0.0
1	1	0	CTGCTAACGGC	4262	1.0	0.0	0.0
1	0	1	CTGCTCCGGG	4263	0.0	#DIV/0!	1.0
0	1	1	CTGCTGTTCG	4264	#DIV/0!	1.0	#DIV/0!
0	0	2	CTGCTTCCTA	4265	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	CTGGATGATC	4266	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	CTGGCAACCA	4267	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CTGGCAGAAAT	4268	0.0	#DIV/0!	1.0
1	0	1	CTGGCAGACC	4269	0.0	#DIV/0!	1.0
0	2	0	CTGGCGAACG	4270	#DIV/0!	0.0	#DIV/0!
0	0	2	CTGGCTCTT	4271	#DIV/0!	#DIV/0!	#DIV/0!
1	-1	0	CTGGCTGGC	4272	1.0	0.0	0.0
1	0	1	CTGGGTCTA	4273	0.0	#DIV/0!	1.0
0	-1	1	CTGGTGCGGA	4274	#DIV/0!	1.0	#DIV/0!
0	1	1	CTGTATAATA	4275	#DIV/0!	1.0	#DIV/0!
0	1	1	CTGTTATCAT	4276	#DIV/0!	1.0	#DIV/0!
0	1	1	CTGTTTAGT	4277	#DIV/0!	1.0	#DIV/0!
0	2	0	CTTAAAAAAA	4278	#DIV/0!	0.0	#DIV/0!
1	0	1	CTTAACAAAGA	4279	0.0	#DIV/0!	1.0
1	0	1	CTTAAGAACG	4280	0.0	#DIV/0!	1.0
0	0	2	CTTAATGTGT	4281	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	CTTAGGAAAC	4282	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	1	0	CTTATGGAGA	4283	1.0	0.0	0.0
1	1	0	CTTATTTTTT	4284	1.0	0.0	0.0
0	0	2	CTTCAGAATG	4285	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CTTCAGCCCA	4286	0.0	#DIV/0!	
1	1	0	CTTCAAAAAG	4287	1.0	0.0	1.0
0	2	0	CTTCCTTAAAT	4288	#DIV/0!	0.0	0.0
0	0	2	CTTCGTCTAC	4289	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	CTTCCTCCCTT	4290	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CTTCCTCCGC	4291	0.0	#DIV/0!	#DIV/0!
1	1	0	CTTGAGCTAG	4292	1.0	0.0	1.0
0	0	2	CTTGATATCT	4293	#DIV/0!	#DIV/0!	0.0
1	0	1	CTTGATTAGT	4294	0.0	#DIV/0!	#DIV/0!
0	1	1	CTTGGTGGGA	4295	#DIV/0!	1.0	1.0
1	0	1	CTTGTGGCAC	4296	0.0	#DIV/0!	#DIV/0!
1	0	1	CTTGTCTTGG	4297	0.0	#DIV/0!	1.0
1	0	1	CTTGTCAAA	4298	0.0	#DIV/0!	1.0
0	2	0	CTTGTGGTC	4299	#DIV/0!	0.0	#DIV/0!
1	1	0	CTTGAAGA	4300	1.0	0.0	1.0
1	1	0	CTTGTCTCTT	4301	1.0	0.0	0.0
2	0	0	CTTTCGTTT	4302	0.0	#DIV/0!	0.0
1	1	0	CTTTCTGT	4303	1.0	0.0	0.0
1	1	0	CTTTGACA	4304	1.0	0.0	0.0
1	0	1	CTTTTTGAG	4305	0.0	#DIV/0!	0.0
2	0	0	GAAAAAAAGC	4306	0.0	#DIV/0!	1.0
1	0	1	GAAAACACGT	4307	0.0	#DIV/0!	0.0
0	1	1	GAAAACGTTC	4308	#DIV/0!	#DIV/0!	1.0
0	1	1	GAAAATGAAA	4309	#DIV/0!	1.0	#DIV/0!
0	2	0	GAAAATTATT	4310	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	1	0	GAAAATTGGA	4311	1.0		0.0	0.0
1	1	0	GAAAATTGGG	4312	0.0	#DIV/0!	1.0	1.0
1	1	0	GAACCAAGGT	4313	0.0	#DIV/0!	1.0	1.0
0	0	2	GAAACGGCTCT	4314	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	GAAACGGTTGT	4315	#DIV/0!	1.0	#DIV/0!	#DIV/0!
0	0	1	GAAAGATAAT	4316	#DIV/0!	1.0	#DIV/0!	#DIV/0!
1	1	0	GAAAGCATAA	4317	0.0	#DIV/0!	1.0	1.0
1	1	0	GAAAGGTGTA	4318	0.0	#DIV/0!	1.0	1.0
2	0	0	GAAATGTGGA	4319	0.0	#DIV/0!	1.0	1.0
1	1	0	GAAATTGAAA	4320	0.0	#DIV/0!	0.0	0.0
0	0	2	GAACAAAAACG	4321	#DIV/0!	0.0	#DIV/0!	1.0
1	1	0	GAACAAATCTT	4322	0.0	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAACAATTGG	4323	0.0	#DIV/0!	1.0	1.0
0	0	2	GAACAGCGAGA	4324	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	1	0	GAACAGCGGG	4325	0.0	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GAACCGAGAAG	4326	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GAACGATCCT	4327	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GAACGTATAT	4328	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	GAACTCCCTGG	4329	1.0	0.0	0.0	0.0
1	1	0	GAACTGAAAA	4330	0.0	#DIV/0!	1.0	1.0
0	0	1	GAACITGTAA	4331	#DIV/0!	1.0	#DIV/0!	#DIV/0!
2	0	0	GAAGAACATCAG	4332	0.0	#DIV/0!	0.0	0.0
0	0	1	GAAGACAGCG	4333	#DIV/0!	1.0	#DIV/0!	#DIV/0!
0	0	1	GAAGCTCCCA	4334	#DIV/0!	1.0	#DIV/0!	#DIV/0!
0	0	1	GAAGGGCGTTT	4335	#DIV/0!	1.0	#DIV/0!	#DIV/0!
-1	0	1	GAAGGGTAGAT	4336	0.0	#DIV/0!	1.0	#DIV/0!
1	1	0	GAAGGGTTGGT	4337	0.0	#DIV/0!	1.0	1.0
0	0	0	GAAGTAGAAA	4338	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

2	0	0	GAAGTGATAT	4339	0.0	#DIV/0!	0.0
0	2	0	GAAGTTCAGT	4340	#DIV/0!	0.0	#DIV/0!
1	0	1	GAATAACGAA	4341	0.0	#DIV/0!	1.0
0	0	2	GAATAATGTC	4342	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GAATGGGACT	4343	0.0	#DIV/0!	1.0
1	1	0	GAATGTTCAT	4344	1.0	0.0	0.0
0	0	2	GAATTGAGCA	4345	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	GAATTGTGGC	4346	0.0	#DIV/0!	0.0
1	1	0	GAATTTTAGA	4347	1.0	0.0	0.0
1	1	0	GACAAGACA	4348	1.0	0.0	0.0
1	1	0	GACAACAAGA	4349	1.0	0.0	0.0
1	0	1	GACAACACCC	4350	0.0	#DIV/0!	0.0
0	0	2	GACAACGTGG	4351	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GACAAGCTTG	4352	#DIV/0!	0.0	#DIV/0!
1	1	0	GACAAGGATG	4353	1.0	0.0	0.0
0	1	1	GACAATTTT	4354	#DIV/0!	1.0	1.0
1	1	0	GACACCTATG	4355	1.0	0.0	0.0
0	0	2	GACACTTCTC	4356	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GACATAGAAA	4357	1.0	0.0	#DIV/0!
0	1	1	GACATCAAGC	4358	#DIV/0!	1.0	0.0
0	1	1	GACATCAGTT	4359	#DIV/0!	1.0	#DIV/0!
1	1	0	GACATTCCT	4360	1.0	0.0	0.0
2	0	0	GACATTGAA	4361	0.0	#DIV/0!	0.0
1	0	1	GACCAATATC	4362	0.0	#DIV/0!	1.0
1	0	1	GACCCAGGCA	4363	0.0	#DIV/0!	1.0
0	1	1	GACGAATAATT	4364	#DIV/0!	1.0	#DIV/0!
0	0	2	GACGCTTCAC	4365	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GACGTCCAAC	4366	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	2	GACTAATGTA	4367	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GACTATTAG	4368	0.0	#DIV/0!	1.0
0	1	1	GACTAAAT	4369	#DIV/0!	1.0	#DIV/0!
1	0	1	GACTCGATAA	4370	0.0	#DIV/0!	1.0
0	2	0	GACTCGCTT	4371	#DIV/0!	0.0	#DIV/0!
1	1	0	GACTCTATTG	4372	1.0	0.0	0.0
0	0	1	GACTGAAGCT	4373	#DIV/0!	1.0	#DIV/0!
0	0	2	GACTGATACG	4374	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACTTCATAA	4375	#DIV/0!	1.0	#DIV/0!
1	1	0	GACTTCTTTC	4376	1.0	0.0	0.0
1	1	0	GAGAAAGAAA	4377	1.0	0.0	0.0
0	0	1	GAGAACTCAC	4378	#DIV/0!	1.0	#DIV/0!
1	1	0	GAGAAAGACAG	4379	1.0	0.0	0.0
2	0	0	GAGACTTTA	4380	0.0	#DIV/0!	0.0
1	0	1	GAGAGATGAA	4381	0.0	#DIV/0!	1.0
0	0	1	GAGGACAACG	4382	#DIV/0!	1.0	#DIV/0!
1	1	0	GAGGAGTTCGA	4383	1.0	0.0	0.0
1	1	0	GAGATGTTCC	4384	1.0	0.0	0.0
0	1	1	GAGCAGGTGG	4385	#DIV/0!	1.0	#DIV/0!
1	0	1	GAGCTCCGAT	4386	0.0	#DIV/0!	1.0
1	0	1	GAGGATAGCC	4387	0.0	#DIV/0!	1.0
1	1	0	GAGGATAGCG	4388	1.0	0.0	0.0
0	0	1	GAGGCCAAAA	4389	#DIV/0!	1.0	#DIV/0!
1	0	1	GAGGCAGGAT	4390	0.0	#DIV/0!	1.0
1	1	0	GAGGGCTCAG	4391	1.0	0.0	0.0
1	1	0	GAGGTAAAGG	4392	1.0	0.0	0.0
1	0	1	GAGGTCAAGA	4393	0.0	#DIV/0!	1.0
2	0	0	GAGGTTAACCG	4394	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	1	GAGTGGCCTT	4395	#DIV/0!	1.0
0	1	1	GAGTGGGTTA	4396	#DIV/0!	1.0
1	1	0	GAGTGGTACA	4397	1.0	0.0
1	0	1	GAGTTAGTGT	4398	0.0	0.0
0	1	1	GAGTTGATAA	4399	#DIV/0!	1.0
0	2	0	GAGTTTGCTA	4400	#DIV/0!	1.0
2	0	0	GATAAAAAAG	4401	0.0	#DIV/0!
1	1	0	GATAACTGAA	4402	1.0	0.0
2	0	0	GATAAGCCCG	4403	0.0	#DIV/0!
1	0	1	GATAATCGCA	4404	0.0	#DIV/0!
0	0	2	GATACCTTCA	4405	#DIV/0!	1.0
2	0	0	GATATATCAT	4406	0.0	#DIV/0!
1	1	0	GATATGCCGA	4407	1.0	0.0
0	1	1	GATAATTTTT	4408	#DIV/0!	0.0
1	1	0	GATCAGATG	4409	1.0	0.0
1	0	1	GATGCCCGCT	4410	0.0	#DIV/0!
0	2	0	GATCTCAATT	4411	#DIV/0!	1.0
1	1	0	GATGAAAACA	4412	1.0	0.0
1	0	1	GATGAAAGACG	4413	0.0	#DIV/0!
1	1	0	GATGAAATTAC	4414	1.0	0.0
0	0	2	GATGATGATG	4415	#DIV/0!	1.0
1	1	0	GATGCAAATC	4416	1.0	0.0
0	0	2	GATGGAATAG	4417	#DIV/0!	0.0
0	1	1	GATGTCAGA	4418	#DIV/0!	#DIV/0!
2	0	0	GATTACTTCA	4419	0.0	#DIV/0!
1	0	1	GATTCAAAAA	4420	0.0	0.0
0	0	2	GATTGATAC	4421	#DIV/0!	1.0
1	0	1	GATTCTAAAA	4422	0.0	#DIV/0!

Table 5, cont.

0	2	0	GATTCTGACT	4423	#DIV/0!	0.0	#DIV/0!
1	0	1	GATTGGATC	4424	0.0	#DIV/0!	1.0
0	1	1	GATTGGAAAT	4425	#DIV/0!	1.0	#DIV/0!
1	1	0	GATTGGTGGT	4426	1.0	0.0	0.0
1	1	0	GATTGTGGAT	4427	1.0	0.0	0.0
1	0	1	GATTGGCGC	4428	0.0	#DIV/0!	0.0
1	0	1	GCAAACCCAA	4429	0.0	#DIV/0!	1.0
0	1	1	GCAAACCCAC	4430	#DIV/0!	1.0	#DIV/0!
2	0	0	GCAAAGAATA	4431	0.0	#DIV/0!	0.0
1	0	1	GCAAATGATT	4432	0.0	#DIV/0!	0.0
0	1	1	GCAACTGCGG	4433	#DIV/0!	1.0	#DIV/0!
1	0	1	GCAAGAGAAG	4434	0.0	#DIV/0!	1.0
0	2	0	GCAAGTTAGC	4435	#DIV/0!	0.0	#DIV/0!
2	0	0	GCAATACTAT	4436	0.0	#DIV/0!	0.0
0	0	2	GCAATGACAC	4437	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GCACATTGGA	4438	#DIV/0!	0.0	#DIV/0!
1	1	0	GCACGAAGTA	4439	1.0	0.0	0.0
1	0	1	GCACTTCAAC	4440	0.0	#DIV/0!	0.0
2	0	0	GCAGATAGCG	4441	0.0	#DIV/0!	1.0
2	0	0	GCAGGCCATTG	4442	0.0	#DIV/0!	0.0
0	2	0	GCAGTTGCCT	4443	#DIV/0!	0.0	#DIV/0!
1	1	0	GCAGTTGCTT	4444	1.0	0.0	0.0
0	1	1	GCATAAAACG	4445	#DIV/0!	1.0	#DIV/0!
0	2	0	GCATAACGAG	4446	#DIV/0!	0.0	#DIV/0!
1	1	0	GCATCAACAA	4447	1.0	0.0	0.0
0	0	2	GCATCATTGA	4448	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GCATCCAAGA	4449	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GCATCTCTAA	4450	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	GCATTCCTTG	4451	#DIV/0!	1.0		#DIV/0!
1	0	GCATTGGATT	4452	0.0		#DIV/0!	1.0
2	0	GCATTTTATC	4453	0.0		#DIV/0!	0.0
2	0	GCCAAACTGA	4454	0.0		#DIV/0!	0.0
0	1	GCCAAATCAT	4455	#DIV/0!	1.0		#DIV/0!
0	1	GCCAATGTT	4456	#DIV/0!	1.0		#DIV/0!
0	1	GCCAACGCCG	4457	#DIV/0!	1.0		#DIV/0!
1	0	GCCAAGAACT	4458	0.0		#DIV/0!	#DIV/0!
2	0	GCCAATCACA	4459	0.0		#DIV/0!	1.0
1	1	GCCAGAAACG	4460	1.0		#DIV/0!	0.0
0	1	GCCAGATTGG	4461	#DIV/0!	1.0		#DIV/0!
0	1	GCCAGATTAA	4462	#DIV/0!	1.0		#DIV/0!
0	1	GCCAGTGGCG	4463	#DIV/0!	1.0		#DIV/0!
2	0	GCCAATTTTG	4464	0.0		#DIV/0!	#DIV/0!
1	1	GCCCAAACCTCA	4465	1.0		0.0	0.0
0	2	GCCCCCTCCTA	4466	#DIV/0!	0.0		0.0
0	1	GCGGAATTCT	4467	#DIV/0!	0.0		#DIV/0!
2	0	GCGGATGTGC	4468	0.0		#DIV/0!	1.0
0	0	GCGGGTTCAC	4469	#DIV/0!	0.0		0.0
0	1	GCCTAGTAAT	4470	#DIV/0!	1.0		#DIV/0!
1	1	GCCTGAAATG	4471	1.0		0.0	#DIV/0!
1	0	GCCTGCAAAT	4472	0.0		#DIV/0!	0.0
0	2	GCCTGGGAAG	4473	#DIV/0!	0.0		1.0
1	0	GCCTGGGATA	4474	0.0		#DIV/0!	1.0
0	2	GCCTGGGTA	4475	#DIV/0!	0.0		#DIV/0!
2	0	GCCTTTTT	4476	0.0		#DIV/0!	0.0
2	0	GCGAATAGTG	4477	0.0		#DIV/0!	0.0
0	0	GCGATACTAC	4478	#DIV/0!	#DIV/0!		#DIV/0!

Table 5, cont.

1	1	0	GCGATCAAA	4479	1.0	0.0		0.0
2	0	0	GCGATCTTT	4480	0.0	#DIV/0!	0.0	0.0
-1	0	1	GCGCCTCTA	4481	0.0	#DIV/0!	1.0	1.0
-1	0	1	GCGCTACTGC	4482	0.0	#DIV/0!	1.0	1.0
0	0	0	GCGCTAAAAA	4483	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GCGGCGGGTG	4484	#DIV/0!	1.0	#DIV/0!	#DIV/0!
2	0	0	GCGTACCGGC	4485	0.0	#DIV/0!	0.0	0.0
1	0	1	GCGTCCTCCC	4486	0.0	#DIV/0!	1.0	1.0
1	0	1	GCGTCCTTA	4487	0.0	#DIV/0!	1.0	1.0
-1	1	0	GCTAATACAT	4488	1.0	0.0		0.0
0	1	1	GCTACAGCAG	4489	#DIV/0!	1.0	#DIV/0!	#DIV/0!
0	0	2	GCTACCCCAAT	4490	#DIV/0!	#DIV/0!	1.0	1.0
0	1	1	GCTACCTAAA	4491	#DIV/0!	1.0	#DIV/0!	#DIV/0!
1	0	1	GCTACCTACG	4492	0.0	#DIV/0!	1.0	1.0
0	1	1	GCTACTATTAA	4493	#DIV/0!	1.0	#DIV/0!	1.0
0	2	0	GCTCAAATTG	4494	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	2	GCTCAATCCA	4495	#DIV/0!	#DIV/0!	1.0	1.0
-1	1	0	GCTCTAAAAA	4496	1.0	0.0		0.0
-1	0	1	GCTGAGCCCC	4497	0.0	#DIV/0!	0.0	0.0
-1	1	0	GCTGCTACGC	4498	1.0	0.0		0.0
0	0	2	GCTGCTAGGC	4499	#DIV/0!	#DIV/0!	0.0	0.0
0	2	0	GCTGCTCAAT	4500	#DIV/0!	0.0	#DIV/0!	#DIV/0!
-1	0	1	GCTGCTCAGA	4501	0.0	#DIV/0!	1.0	1.0
0	0	2	GCTGGCTAAG	4502	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GCTGGTAGTA	4503	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	1	0	GCTGTATTCT	4504	1.0	0.0	#DIV/0!	#DIV/0!
2	0	0	GCTGTTCA	4505	0.0	0.0	0.0	0.0
2	0	0	GCTAAAAAA	4506	0.0	#DIV/0!	0.0	0.0

Table 5, cont.

0	1	1	GCTTAAAAAT	4507	#DIV/0!	1.0
0	0	2	GCTTCGAAACA	4508	#DIV/0!	#DIV/0!
0	0	2	GCTTCTTATA	4509	#DIV/0!	#DIV/0!
0	2	0	GCTTGGGGGT	4510	#DIV/0!	#DIV/0!
0	2	0	GCTTGACTT	4511	#DIV/0!	#DIV/0!
0	2	0	GCTTCCCTT	4512	#DIV/0!	#DIV/0!
0	1	1	GCTTGGCTAA	4513	#DIV/0!	#DIV/0!
1	1	0	GCTTGTGTT	4514	1.0	#DIV/0!
0	1	1	GCTTTTGCAT	4515	0.0	0.0
1	1	0	GGAAAATTAA	4516	0.0	#DIV/0!
0	1	1	GGAAAATGCT	4517	#DIV/0!	1.0
1	1	0	GGAAAGCCCCA	4518	1.0	#DIV/0!
0	0	2	GGAAACACTC	4519	#DIV/0!	0.0
1	1	0	GGAACCTTCG	4520	0.0	#DIV/0!
0	0	2	GGAAITCCATA	4521	#DIV/0!	1.0
1	1	0	GGAAITCTGGT	4522	1.0	#DIV/0!
0	2	0	GGAAITGTGA	4523	#DIV/0!	0.0
2	0	0	GGAAITAAGA	4524	0.0	#DIV/0!
2	0	0	GGACCCCACT	4525	0.0	#DIV/0!
1	0	1	GGACCTTACT	4526	0.0	0.0
1	0	1	GGACTCATAT	4527	0.0	#DIV/0!
0	2	0	GGAGCAGTTA	4528	#DIV/0!	1.0
0	2	0	GGAGCCCTGA	4529	0.0	1.0
1	0	1	GGAGCGTATA	4530	#DIV/0!	#DIV/0!
1	1	0	GGAGGAAACC	4531	0.0	#DIV/0!
0	2	0	GGAGGATGGG	4532	#DIV/0!	1.0
0	1	1	GGAGGGAAACG	4533	#DIV/0!	0.0
1	0	1	GGAGTGCAC	4534	0.0	#DIV/0!
						1.0

Table 5, cont.

1	0	1	GGAGTTAACG	4535	0.0	#DIV/0!		1.0
0	1	1	GGATAGCACT	4536	#DIV/0!	1.0	#DIV/0!	
-1	0	1	GGATGATGGA	4537	0.0	#DIV/0!		1.0
0	0	2	GGATGGCGAC	4538	#DIV/0!	#DIV/0!	#DIV/0!	
-1	1	0	GGATGGTAAG	4539	1.0	0.0	0.0	
-1	0	1	GGATTGGAC	4540	0.0	#DIV/0!		0.0
0	1	1	GGCAAATCCA	4541	#DIV/0!	1.0	#DIV/0!	
0	0	2	GGCAACGGGTG	4542	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	1	GGCAATAGCC	4543	#DIV/0!	1.0	#DIV/0!	
0	2	0	GGCACCTGTC	4544	#DIV/0!	0.0	#DIV/0!	
2	0	0	GGCAGATGAT	4545	0.0	#DIV/0!		0.0
0	0	2	GGCAGATTGG	4546	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	1	GGCATAAACG	4547	0.0	#DIV/0!		0.0
0	1	1	GGCATCAGGA	4548	#DIV/0!	1.0	#DIV/0!	
1	1	0	GGCCCATAGA	4549	1.0	0.0	0.0	
2	0	0	GGCCTTACAC	4550	0.0	#DIV/0!		0.0
1	0	1	GGCGATTGAT	4551	0.0	#DIV/0!		0.0
2	0	0	GGCGCTAAGA	4552	0.0	#DIV/0!		1.0
1	0	1	GGCGCTAATT	4553	0.0	#DIV/0!		0.0
0	0	2	GGCGGGGGTG	4554	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	2	GGCGTAGAAT	4555	#DIV/0!	#DIV/0!	#DIV/0!	
0	2	0	GGCGTTGACA	4556	#DIV/0!	0.0	#DIV/0!	
0	1	1	GGCTCTCCCC	4557	#DIV/0!	1.0	#DIV/0!	
1	0	1	GGCTGAGATA	4558	0.0	#DIV/0!		1.0
-1	1	0	GGCTGTTGG	4559	1.0	0.0	0.0	
0	1	1	GGCTTCTCTA	4560	#DIV/0!	1.0	#DIV/0!	
0	1	1	GGCTTACAA	4561	#DIV/0!	1.0	#DIV/0!	
0	1	1	GGCTTGGTT	4562	#DIV/0!	1.0	#DIV/0!	

Table 5, cont.

0	0	2	GGGACTGATG	4563	#DIV/0!		#DIV/0!	
2	0	0	GGGAGAAATC	4564	0.0	#DIV/0!	0.0	#DIV/0!
1	1	0	GGGAGCTCAA	4565	1.0	0.0	0.0	0.0
0	0	2	GGGAGGTCAT	4566	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GGGATGATGA	4567	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GGGATTCTTG	4568	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	0	1	GGGCCAACCC	4569	0.0	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GGGCCAGGCTT	4570	#DIV/0!	#DIV/0!	1.0	#DIV/0!
0	1	1	GGGCCTCTGAA	4571	#DIV/0!	1.0	#DIV/0!	#DIV/0!
2	0	0	GGGGGCTTAG	4572	0.0	#DIV/0!	0.0	#DIV/0!
1	1	0	GGGGTTAACCG	4573	1.0	0.0	0.0	0.0
0	0	2	GGGGGGTATT	4574	#DIV/0!	0.0	0.0	0.0
1	0	1	GGGTGTTACC	4575	0.0	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GGGTCTCTA	4576	1.0	0.0	0.0	1.0
0	2	0	GGGTGACAA	4577	#DIV/0!	0.0	0.0	#DIV/0!
0	0	2	GGTAAAACAA	4578	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	1	GGTAAATACC	4579	0.0	#DIV/0!	1.0	#DIV/0!
0	0	2	GGTACTCCA	4580	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GGTACGCAAG	4581	0.0	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GGTCAGAACAT	4582	#DIV/0!	#DIV/0!	1.0	#DIV/0!
1	0	1	GGTCACTCCT	4583	0.0	#DIV/0!	1.0	#DIV/0!
0	1	1	GGTCAGATG	4584	#DIV/0!	1.0	1.0	#DIV/0!
0	1	1	GGTCAGCCT	4585	#DIV/0!	1.0	1.0	#DIV/0!
0	1	1	GGTCAGTTA	4586	#DIV/0!	1.0	1.0	#DIV/0!
1	0	1	GGTCCTCTCT	4587	0.0	#DIV/0!	1.0	#DIV/0!
1	1	0	GGTCTGGTT	4588	1.0	0.0	0.0	1.0
0	2	0	GGTGAAGAAG	4589	#DIV/0!	0.0	0.0	#DIV/0!
1	0	1	GGTGAGGATT	4590	0.0	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

2	0	0	GGTGATAACG	4591	0.0	#DIV/0!	0.0
0	1	1	GGTGCTAAC	4592	#DIV/0!	1.0	#DIV/0!
0	0	2	GGTGCTAAGT	4593	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	1	GGTGCTGAGA	4594	0.0	#DIV/0!	1.0
0	1	1	GGTGTTAACG	4595	#DIV/0!	1.0	#DIV/0!
0	2	0	GGTGTTAACG	4596	#DIV/0!	0.0	#DIV/0!
1	0	1	GGTGTTGACT	4597	0.0	#DIV/0!	1.0
1	-1	0	GGTGTTAAC	4598	1.0	0.0	0.0
2	0	0	GGTGTTCACG	4599	0.0	#DIV/0!	0.0
0	0	2	GGTGTTAAC	4600	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GGTTAACCGT	4601	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	GGTCCCACGA	4602	0.0	#DIV/0!	0.0
0	0	2	GGTTGGTTA	4603	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GGTTCTAAATT	4604	1.0	0.0	0.0
-1	1	0	GGTTCTGGTT	4605	1.0	0.0	0.0
0	2	0	GGTTTAGGTT	4606	#DIV/0!	0.0	#DIV/0!
0	2	0	GGTTGTATT	4607	#DIV/0!	0.0	#DIV/0!
0	1	1	GGTTTGATT	4608	#DIV/0!	1.0	#DIV/0!
1	1	0	GTAAAAAAA	4609	1.0	0.0	0.0
2	0	0	GTAAAGACCT	4610	0.0	#DIV/0!	0.0
0	0	2	GTAACGATTG	4611	#DIV/0!	#DIV/0!	0.0
0	2	0	GTAACGTACA	4612	#DIV/0!	0.0	#DIV/0!
-1	0	1	GTAACTGGAC	4613	0.0	#DIV/0!	#DIV/0!
1	0	1	GTAAGAAATA	4614	0.0	#DIV/0!	1.0
0	0	2	GTAAGGACGC	4615	#DIV/0!	#DIV/0!	1.0
0	1	1	GTACAAAAAA	4616	#DIV/0!	1.0	#DIV/0!
0	2	0	GTACAAGCAA	4617	#DIV/0!	0.0	#DIV/0!
-1	0	1	GTACACCTGA	4618	0.0	#DIV/0!	1.0

Table 5, cont.

0	0	2	GTACACCTGG	4619	#DIV/0!		#DIV/0!	
1	1	0	GTACAGGGCT	4620	1.0	0.0	0.0	0.0
2	0	0	GTACCAACTC	4621	0.0	#DIV/0!	0.0	0.0
0	2	0	GTACCCGAAA	4622	#DIV/0!	0.0	#DIV/0!	
0	2	0	GTACCCCTAT	4623	#DIV/0!	0.0	#DIV/0!	
2	0	0	GTACGGTTT	4624	0.0	#DIV/0!	0.0	#DIV/0!
1	1	0	GTACTCCTCT	4625	1.0	0.0	0.0	0.0
1	0	1	GTACTCTAG	4626	0.0	#DIV/0!	1.0	
1	1	0	GTACTTGAC	4627	1.0	0.0	0.0	0.0
1	0	1	GTACCTTCGG	4628	0.0	#DIV/0!	1.0	
1	0	1	GTAGAACACC	4629	0.0	#DIV/0!	1.0	
1	0	1	GTAGATAAGCG	4630	0.0	#DIV/0!	1.0	
2	0	0	GTAGCCGATCG	4631	0.0	#DIV/0!	1.0	
1	0	1	GTAGCGGGTGT	4632	0.0	#DIV/0!	0.0	
0	2	0	GTAGTTTGTCT	4633	#DIV/0!	0.0	#DIV/0!	1.0
0	2	0	GTATATATGC	4634	#DIV/0!	0.0	#DIV/0!	
0	0	2	GTATGGCCAC	4635	#DIV/0!	0.0	#DIV/0!	
1	1	0	GTATTCTAGT	4636	1.0	0.0	0.0	#DIV/0!
0	0	2	GTATTGAITT	4637	#DIV/0!	0.0	#DIV/0!	
0	2	0	GTCAAAAAAA	4638	#DIV/0!	0.0	#DIV/0!	
0	2	0	GTCAAGCAAT	4639	#DIV/0!	0.0	#DIV/0!	
1	1	0	GTCAATGGCT	4640	1.0	0.0	0.0	
0	1	1	GTCACGTTGG	4641	#DIV/0!	1.0	#DIV/0!	
0	1	1	GTCACTGGTA	4642	#DIV/0!	1.0	#DIV/0!	
1	1	0	GTCAATATGGT	4643	1.0	0.0	0.0	
0	2	0	GTCACTCACTT	4644	#DIV/0!	0.0	#DIV/0!	
1	0	1	GTCCCTGAAA	4645	0.0	#DIV/0!	1.0	
2	0	0	GTCCCTTTAG	4646	0.0	#DIV/0!	0.0	

Table 5, cont.

2	0	0	GTCCCTCCAGA	4647	0.0	#DIV/0!	0.0
1	0	1	GTGCCCTTA	4648	0.0	#DIV/0!	1.0
0	1	1	GTCCGGTATGG	4649	#DIV/0!	1.0	#DIV/0!
0	1	1	GTCCGTCTAC	4650	#DIV/0!	1.0	#DIV/0!
0	0	2	GTGGTTATT	4651	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTCTATTCTT	4652	1.0	0.0	0.0
1	0	1	GTCTGCACCT	4653	0.0	#DIV/0!	1.0
2	0	0	GTGAAAATAG	4654	0.0	#DIV/0!	0.0
1	0	1	GTGAACAACG	4655	0.0	#DIV/0!	1.0
0	1	1	GTGAACAGTC	4656	#DIV/0!	1.0	#DIV/0!
1	0	1	GTGAAGCTCG	4657	0.0	#DIV/0!	1.0
0	1	1	GTGAAGGGGC	4658	#DIV/0!	1.0	#DIV/0!
1	1	0	GTGAAGGTTT	4659	1.0	0.0	0.0
0	0	2	GTGACAACGT	4660	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GTGACAGATG	4661	#DIV/0!	0.0	#DIV/0!
0	0	2	GTGACGGCTT	4662	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGATAAACG	4663	1.0	0.0	0.0
0	0	2	GTGATACCG	4664	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GTGATATCAG	4665	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGATGATGA	4666	1.0	0.0	0.0
1	1	0	GTGATTAGGC	4667	1.0	0.0	0.0
1	1	0	GTGATTGAC	4668	1.0	0.0	0.0
1	0	1	GTGCCTAAAA	4669	0.0	#DIV/0!	1.0
0	1	1	GTGCCTGCATA	4670	#DIV/0!	1.0	#DIV/0!
0	1	1	GTGGAACATA	4671	#DIV/0!	1.0	#DIV/0!
0	0	2	GTGGAGCCGG	4672	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGGATTCTT	4673	1.0	0.0	0.0
0	1	1	GTGGCGGACA	4674	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	0	2	GTGGGACAAA	4675	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGGGGCTGCT	4676	1.0	0.0	0.0
0	1	1	GTGGGTATTG	4677	#DIV/0!	1.0	#DIV/0!
1	0	1	GTGGGTCCCTT	4678	0.0	#DIV/0!	1.0
1	0	1	GTGGTTCAAT	4679	0.0	#DIV/0!	1.0
0	0	2	GTGTCATTGG	4680	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGTTGTTCTA	4681	1.0	0.0	0.0
2	0	0	GTGTTCTTAC	4682	0.0	#DIV/0!	0.0
0	1	1	GTGTTGAAAA	4683	#DIV/0!	1.0	#DIV/0!
2	0	0	GTGTTGAGAA	4684	0.0	#DIV/0!	0.0
1	0	1	GTGTTGGTGC	4685	0.0	#DIV/0!	1.0
2	0	0	GTAAACGATA	4686	0.0	#DIV/0!	0.0
0	2	0	GTAAAGCAA	4687	#DIV/0!	0.0	#DIV/0!
2	0	0	GTAAATGATG	4688	0.0	#DIV/0!	0.0
1	1	0	GTACAAGAA	4689	1.0	0.0	0.0
0	1	1	GTTACATCCG	4690	#DIV/0!	1.0	#DIV/0!
0	2	0	GTTACCTACC	4691	#DIV/0!	0.0	#DIV/0!
1	0	1	GTTACGGCCA	4692	0.0	#DIV/0!	1.0
0	2	0	GTAGAAAGAG	4693	#DIV/0!	0.0	#DIV/0!
1	0	1	GTTAGATCCC	4694	0.0	#DIV/0!	1.0
0	2	0	GTTATCAGTG	4695	#DIV/0!	0.0	#DIV/0!
2	0	0	GTTATGGTCA	4696	0.0	#DIV/0!	0.0
0	2	0	GTTATGTATT	4697	#DIV/0!	0.0	#DIV/0!
0	0	2	GTTATTATA	4698	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GTTATTATC	4699	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GTTCAAAAAC	4700	#DIV/0!	1.0	#DIV/0!
2	0	0	GTTCACGGG	4701	0.0	#DIV/0!	0.0
1	1	0	GTTCAGAAC	4702	1.0	0.0	0.0

Table 5, cont.

1	0	GTTCCCAGAC	4703	0.0	#DIV/0!	1.0
0	-1	GTCGGGTCA	4704	#DIV/0!	1.0	#DIV/0!
1	1	GTTCTAAATA	4705	1.0	0.0	0.0
0	0	GTTCTCTAGC	4706	#DIV/0!	#DIV/0!	#DIV/0!
0	2	GTTCTCTTCT	4707	#DIV/0!	0.0	#DIV/0!
2	0	GTCCTTATT	4708	0.0	#DIV/0!	0.0
0	2	GTTGAGATT	4709	#DIV/0!	0.0	#DIV/0!
0	0	GTTGATGCTA	4710	#DIV/0!	#DIV/0!	#DIV/0!
1	1	GTTGGGGTCC	4711	1.0	0.0	0.0
0	2	GTTGGATAAA	4712	#DIV/0!	0.0	#DIV/0!
1	1	GTTGTCCTCA	4713	1.0	0.0	0.0
0	1	GTTGTGAGCA	4714	#DIV/0!	1.0	#DIV/0!
1	1	GTTGGGGAG	4715	1.0	0.0	0.0
2	0	GTTTACCG	4716	0.0	#DIV/0!	0.0
2	0	GTTTAAAAAA	4717	0.0	#DIV/0!	0.0
0	2	GTTTACAAAA	4718	#DIV/0!	0.0	#DIV/0!
0	0	GTTTACCCAA	4719	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	GTTTCAAGGG	4720	1.0	0.0	0.0
-1	0	GTTTCCAAA	4721	0.0	#DIV/0!	1.0
1	0	GTTTCCCTTT	4722	0.0	#DIV/0!	1.0
-1	1	GTTTGAAGAA	4723	1.0	0.0	0.0
-1	0	GTTTGACCTA	4724	0.0	#DIV/0!	1.0
-1	0	GTTTGATTAC	4725	1.0	0.0	0.0
1	1	GTTTGCATC	4726	1.0	0.0	0.0
1	1	GTTTGTAGAC	4727	1.0	0.0	0.0
0	0	GTTTGTGAAAC	4728	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	GTTTACCCA	4729	0.0	#DIV/0!	1.0
2	0	GTTTGCATTG	4730	0.0	#DIV/0!	0.0

Table 5, cont.

1	1	0	GTTTCTTCC	4731	1.0	0.0	0.0
2	0	0	GTTTCITTC	4732	0.0	#DIV/0!	0.0
-1	0	1	TAAGTCCAG	4733	0.0	#DIV/0!	1.0
0	2	0	TAAATAAAA	4734	#DIV/0!	0.0	#DIV/0!
0	2	0	TAAATAAGAT	4735	#DIV/0!	0.0	#DIV/0!
0	2	0	TAAATAATAA	4736	#DIV/0!	0.0	#DIV/0!
-1	0	1	TAAATATAAA	4737	0.0	#DIV/0!	1.0
0	1	1	TAAATATGTT	4738	#DIV/0!	1.0	#DIV/0!
1	0	1	TAATTCAGTA	4739	0.0	#DIV/0!	1.0
1	1	0	TAATGGTCT	4740	1.0	0.0	0.0
1	1	0	TAATTTTAC	4741	1.0	0.0	0.0
0	2	0	TAACAAAGAG	4742	#DIV/0!	0.0	#DIV/0!
1	1	0	TAACAAACTTA	4743	1.0	0.0	0.0
2	0	0	TAACTAAGAC	4744	0.0	#DIV/0!	0.0
1	0	1	TACTTCGTT	4745	0.0	#DIV/0!	1.0
2	0	0	TAAGCAGATT	4746	0.0	#DIV/0!	0.0
1	0	1	TAAGCTTTT	4747	0.0	#DIV/0!	1.0
0	2	0	TAATCTTGA	4748	#DIV/0!	0.0	#DIV/0!
1	0	1	TAATGCTAAA	4749	0.0	#DIV/0!	1.0
1	1	0	TAATGCTAAC	4750	1.0	0.0	0.0
0	2	0	TAATTGAAA	4751	#DIV/0!	0.0	#DIV/0!
2	0	0	TAATTGATAG	4752	0.0	#DIV/0!	0.0
0	2	0	TAATTGTCGG	4753	#DIV/0!	0.0	#DIV/0!
1	1	0	TAATTACGC	4754	1.0	0.0	0.0
2	0	0	TAATTAGAT	4755	0.0	#DIV/0!	0.0
1	0	1	TAATTTCAT	4756	0.0	#DIV/0!	1.0
1	1	0	TAATTGGA	4757	1.0	0.0	0.0
0	1	1	TACAAAAAA	4758	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	2	0	TACAACAA TT	4759	#DIV/0!	0.0	#DIV/0!
0	2	0	TACAATATA T	4760	#DIV/0!	0.0	#DIV/0!
0	2	0	TACAATCTTA	4761	#DIV/0!	0.0	#DIV/0!
0	1	1	TACACAAGTG	4762	#DIV/0!	1.0	#DIV/0!
0	1	1	TACACCCAGC	4763	#DIV/0!	1.0	#DIV/0!
0	2	0	TACAGCGGCG	4764	#DIV/0!	0.0	#DIV/0!
1	0	1	TACAGCTGTG	4765	0.0	#DIV/0!	1.0
0	2	0	TACATACCTG	4766	#DIV/0!	0.0	#DIV/0!
1	0	1	TACATTCTAA	4767	0.0	#DIV/0!	1.0
2	0	0	TACATTGGCT	4768	0.0	#DIV/0!	0.0
1	1	0	TACCAA ACTCT	4769	1.0	0.0	0.0
1	0	1	TACCACCCCT	4770	0.0	#DIV/0!	1.0
2	0	0	TACCACTCCG	4771	0.0	#DIV/0!	0.0
0	1	1	TACCA GAAA	4772	#DIV/0!	1.0	#DIV/0!
1	1	0	TACCGTAAG	4773	1.0	0.0	0.0
0	0	2	TACCTCGTTA	4774	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TACCTTAGGT	4775	0.0	#DIV/0!	1.0
0	2	0	TACCTTCTCT	4776	#DIV/0!	0.0	#DIV/0!
1	1	0	TACGAGGACA	4777	1.0	0.0	0.0
0	0	2	TACGAGGCAA	4778	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TACGCTAATA	4779	#DIV/0!	0.0	#DIV/0!
1	0	1	TACGTCTCCA	4780	0.0	#DIV/0!	1.0
2	0	0	TACGTTGCCG	4781	0.0	#DIV/0!	0.0
1	1	0	TACTACT CCT	4782	1.0	0.0	0.0
1	0	1	TACTATACAC	4783	0.0	#DIV/0!	1.0
1	1	0	TACTATGCTA	4784	1.0	0.0	0.0
1	0	1	TACTCTCGCT	4785	0.0	#DIV/0!	1.0
0	2	0	TACTCTCGTT	4786	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	TACTGGTTA	4787	#DIV/0!	0.0		#DIV/0!
1	1	0	TACTTATAAA	4788	1.0	0.0		0.0
0	1	1	TACTGGGG	4789	#DIV/0!	1.0		#DIV/0!
0	1	1	TACTTAAAC	4790	#DIV/0!	1.0		#DIV/0!
0	2	0	TACTTATCT	4791	#DIV/0!	0.0		#DIV/0!
1	0	1	TACTTGGAA	4792	0.0	#DIV/0!		1.0
1	0	1	TAGAAATGGG	4793	0.0	#DIV/0!		1.0
1	0	1	TAGAAAGAAA	4794	0.0	#DIV/0!		1.0
1	0	1	TAGATTGGCA	4795	0.0	#DIV/0!		1.0
1	1	0	TAGATTTCAT	4796	1.0	0.0		0.0
0	1	1	TAGCAAAGG	4797	#DIV/0!	1.0		#DIV/0!
1	0	1	TAGCAACGGG	4798	0.0	#DIV/0!		1.0
1	1	0	TAGCACCGGG	4799	1.0	0.0		0.0
0	0	2	TAGCACTATT	4800	#DIV/0!	#DIV/0!		#DIV/0!
1	0	1	TAGCATAAAC	4801	0.0	#DIV/0!		1.0
1	1	0	TAGCCAATT	4802	1.0	0.0		0.0
1	0	1	TAGCCATACC	4803	0.0	#DIV/0!		1.0
1	1	0	TAGCTGCCCA	4804	1.0	0.0		0.0
2	0	0	TAGCTTTTC	4805	0.0	#DIV/0!		0.0
0	2	0	TAGGAAGAAA	4806	#DIV/0!	0.0		#DIV/0!
0	2	0	TAGGCACCAA	4807	#DIV/0!	0.0		#DIV/0!
0	1	1	TAGGCAGTGA	4808	#DIV/0!	1.0		#DIV/0!
1	1	0	TAGTAGTAAC	4809	1.0	0.0		0.0
0	0	2	TAGTGGCTGT	4810	#DIV/0!	#DIV/0!		#DIV/0!
0	1	1	TAGTCGGAGA	4811	#DIV/0!	1.0		#DIV/0!
1	0	1	TAGTGGGCTG	4812	0.0	#DIV/0!		1.0
0	0	2	TAGTGCTAACG	4813	#DIV/0!	#DIV/0!		#DIV/0!
1	1	0	TAGTTAAATAG	4814	1.0	0.0		0.0

Table 5, cont.

0	2	0	TAGTTCGTAT	4815	#DIV/0!	0.0	#DIV/0!
1	1	0	TAGTTAGGT	4816	1.0	0.0	0.0
1	1	0	TAGTTTCTA	4817	1.0	0.0	0.0
1	1	0	TATAAGAAC	4818	1.0	0.0	0.0
0	2	0	TATAATACT	4819	#DIV/0!	0.0	#DIV/0!
0	2	0	TATAACCCTA	4820	#DIV/0!	0.0	#DIV/0!
1	1	0	TATAAGTATA	4821	1.0	0.0	0.0
0	2	0	TATAATAGTA	4822	#DIV/0!	0.0	#DIV/0!
2	0	0	TATAATGGG	4823	0.0	#DIV/0!	0.0
1	1	0	TATACATAGT	4824	1.0	0.0	0.0
0	2	0	TATACCTAGC	4825	#DIV/0!	0.0	#DIV/0!
2	0	0	TATAGAGAAC	4826	0.0	#DIV/0!	0.0
0	1	1	TATAGATTGT	4827	#DIV/0!	1.0	#DIV/0!
0	2	0	TATATCTAA	4828	#DIV/0!	0.0	#DIV/0!
2	0	0	TATATCTCC	4829	0.0	#DIV/0!	0.0
1	0	1	TATATTTAAA	4830	0.0	#DIV/0!	1.0
0	2	0	TATCAAACCT	4831	#DIV/0!	0.0	#DIV/0!
0	1	1	TATCAGACGA	4832	#DIV/0!	1.0	#DIV/0!
1	0	1	TATCCAGTTG	4833	0.0	#DIV/0!	1.0
2	0	0	TATCCATCAA	4834	0.0	#DIV/0!	0.0
1	0	1	TATCCCTCACCA	4835	0.0	#DIV/0!	1.0
1	0	1	TATCTACGTA	4836	0.0	#DIV/0!	1.0
1	0	1	TATGACGGGA	4837	0.0	#DIV/0!	1.0
0	2	0	TATGGGTTGA	4838	#DIV/0!	0.0	#DIV/0!
0	0	2	TATGGCTCCT	4839	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	TATGGGCCAA	4840	0.0	#DIV/0!	0.0
1	1	0	TATGTAATAC	4841	1.0	0.0	0.0
1	1	0	TATGTATATA	4842	1.0	0.0	0.0

Table 5, cont.

0	1	1	TATTAAGCGTG	4843	#DIV/0!	1.0	#DIV/0!
2	0	0	TATTATACTT	4844	0.0	#DIV/0!	0.0
1	1	0	TATTCATTTA	4845	1.0	0.0	0.0
0	1	1	TATCCCCCAA	4846	#DIV/0!	1.0	#DIV/0!
2	0	0	TATTCCTTAC	4847	0.0	#DIV/0!	0.0
0	2	0	TATGGACTC	4848	#DIV/0!	0.0	#DIV/0!
1	1	0	TATTTAAATTG	4849	1.0	0.0	0.0
2	0	0	TATTTACCAT	4850	0.0	#DIV/0!	0.0
1	1	0	TATTTATTAC	4851	1.0	0.0	0.0
2	0	0	TATTTATTCG	4852	0.0	#DIV/0!	0.0
1	1	0	TATTCCTTAT	4853	1.0	0.0	0.0
1	1	0	TATTCCTTGT	4854	1.0	0.0	0.0
0	2	0	TATTTGGCAC	4855	#DIV/0!	0.0	#DIV/0!
1	1	0	TCAAAAAGTC	4856	1.0	0.0	0.0
0	2	0	TCAAGGTGCG	4857	#DIV/0!	0.0	#DIV/0!
0	1	1	TCAAAATATGA	4858	#DIV/0!	1.0	#DIV/0!
1	1	0	TCAAGAAATG	4859	1.0	0.0	0.0
1	1	0	TCAAGGCATA	4860	1.0	0.0	0.0
0	1	1	TCAAGTACTC	4861	#DIV/0!	1.0	#DIV/0!
1	0	1	TCAAGTGGG	4862	0.0	#DIV/0!	1.0
1	1	0	TCAATATCAC	4863	1.0	0.0	0.0
1	0	1	TCAATTACAT	4864	0.0	#DIV/0!	1.0
1	1	0	TCACAGAAC	4865	1.0	0.0	0.0
0	0	2	TCACAGAAG	4866	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCACCCACAC	4867	1.0	0.0	0.0
0	1	1	TCAGAGTCAA	4868	#DIV/0!	1.0	#DIV/0!
0	2	0	TCAGCATTCT	4869	#DIV/0!	0.0	#DIV/0!
0	1	1	TCAGGCCAAGA	4870	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	2	0	TCAGGCTCAAG	4871	#DIV/0!	0.0	#DIV/0!
0	1	1	TCAGTTTCTA	4872	#DIV/0!	1.0	#DIV/0!
0	0	2	TCATATTC	4873	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TCATCATCAG	4874	0.0	#DIV/0!	1.0
1	1	0	TCATTGAACG	4875	1.0	0.0	0.0
1	1	0	TCATTGATTG	4876	1.0	0.0	0.0
0	2	0	TCATTTATGA	4877	#DIV/0!	0.0	#DIV/0!
1	1	0	TCCAATATCA	4878	1.0	0.0	0.0
1	1	0	TCCAATTAC	4879	1.0	0.0	0.0
1	1	0	TCCACACACA	4880	1.0	0.0	0.0
0	0	2	TCCACTCCCT	4881	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TCCATATATA	4882	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCATCTGTG	4883	#DIV/0!	1.0	#DIV/0!
1	0	1	TCCCATTAA	4884	0.0	#DIV/0!	1.0
0	0	2	TCCCCGGTAC	4885	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TCCCCGTCA	4886	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCCCGTC	4887	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCCTACGCC	4888	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCCTGTACA	4889	#DIV/0!	1.0	#DIV/0!
0	2	0	TCCCCTTATA	4890	#DIV/0!	0.0	#DIV/0!
1	0	1	TCCGAGCTGC	4891	0.0	#DIV/0!	1.0
0	1	1	TCCGTTCACT	4892	#DIV/0!	1.0	#DIV/0!
0	0	2	TCCTAAAGATG	4893	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TCCTCAATTAA	4894	#DIV/0!	1.0	#DIV/0!
0	2	0	TCCTCGTACA	4895	#DIV/0!	0.0	#DIV/0!
0	1	1	TCCTCTCGTT	4896	#DIV/0!	1.0	#DIV/0!
0	0	2	TCCTCTTTTC	4897	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TCCTTCCAGG	4898	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	TCCTTGAATG	4899	#DIV/0!	0.0	#DIV/0!
0	1	1	TCCTTGGAAAG	4900	#DIV/0!	1.0	#DIV/0!
0	-1	1	TCCCTGTCTG	4901	#DIV/0!	1.0	#DIV/0!
-1	1	0	TCGAACCTCT	4902	1.0	0.0	0.0
-1	0	1	TCGAACCTTT	4903	0.0	#DIV/0!	1.0
0	0	2	TCGAAGTCGT	4904	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCGACAACCC	4905	1.0	0.0	0.0
0	1	1	TCGACTGGAA	4906	#DIV/0!	1.0	#DIV/0!
0	2	0	TCGAIGTCGA	4907	#DIV/0!	0.0	#DIV/0!
0	1	1	TGATTATT	4908	#DIV/0!	1.0	#DIV/0!
1	1	0	TCGCCAGAAG	4909	1.0	0.0	0.0
1	-1	0	TCGCCAGTCT	4910	1.0	0.0	0.0
2	0	0	TCGGCGAAC	4911	0.0	#DIV/0!	0.0
0	1	1	TCGGCTGTTT	4912	#DIV/0!	1.0	#DIV/0!
1	1	0	TCGGCTTCCAG	4913	1.0	0.0	0.0
1	0	1	TCGGGGAGAG	4914	0.0	#DIV/0!	1.0
-1	1	0	TCGGTCAAAT	4915	1.0	0.0	0.0
0	2	0	TCGGTCTTAT	4916	#DIV/0!	0.0	#DIV/0!
1	0	1	TCGGTGGACC	4917	0.0	#DIV/0!	1.0
0	1	1	TCGTCAAGAGA	4918	#DIV/0!	1.0	#DIV/0!
0	1	1	TGTCCTGTC	4919	#DIV/0!	1.0	#DIV/0!
0	0	2	TCTGATTAC	4920	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TCGGGGAGC	4921	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TCGTTCACCT	4922	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	TCTACGTTCC	4923	1.0	0.0	0.0
0	1	1	TCTAGCTCTT	4924	#DIV/0!	1.0	#DIV/0!
1	1	0	TCTCAAAAAA	4925	1.0	0.0	0.0
-1	0	1	TCTCAGTTG	4926	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	TCTCCGGAAAG	4927	#DIV/0!	1.0	#DIV/0!
0	0	TCTCCGTACA	4928	#DIV/0!	1.0	#DIV/0!
0	0	TCTCGGTTAA	4928	#DIV/0!	#DIV/0!	#DIV/0!
1	1	TCTCTATTGG	4930	1.0	0.0	0.0
0	2	TCTGAAATATA	4931	#DIV/0!	0.0	#DIV/0!
0	2	TCTGACTTAG	4932	#DIV/0!	0.0	#DIV/0!
-1	0	TCTGCGTCCG	4933	0.0	#DIV/0!	1.0
0	0	TCTGGTTTA	4934	#DIV/0!	#DIV/0!	#DIV/0!
0	1	TCTGTACAAAT	4935	#DIV/0!	1.0	#DIV/0!
1	0	TCTGTTAGAA	4936	0.0	#DIV/0!	1.0
0	2	TCTTCAGACA	4937	#DIV/0!	0.0	#DIV/0!
0	0	TCTTCAGCTG	4938	#DIV/0!	#DIV/0!	#DIV/0!
1	1	TCTTCACACG	4939	1.0	0.0	0.0
-1	0	TCTCCAAGA	4940	0.0	#DIV/0!	1.0
-1	0	TCTGGATAA	4941	1.0	0.0	0.0
-1	0	TCTTCTGGG	4942	0.0	#DIV/0!	1.0
0	2	TCTTTTACA	4943	#DIV/0!	0.0	#DIV/0!
0	1	TGAAAGCTTC	4944	#DIV/0!	1.0	#DIV/0!
-1	0	TGAATTCTA	4945	0.0	#DIV/0!	1.0
0	0	TGAACTATT	4946	#DIV/0!	#DIV/0!	#DIV/0!
0	1	TGAAGAAAAT	4947	#DIV/0!	1.0	#DIV/0!
2	0	TGAATTCTT	4948	0.0	#DIV/0!	0.0
0	1	TGAGGGCTTA	4949	#DIV/0!	1.0	#DIV/0!
0	1	TGATGAGAAG	4950	#DIV/0!	1.0	#DIV/0!
0	2	TGATTAATAT	4951	#DIV/0!	0.0	#DIV/0!
2	0	TGATTGCACA	4952	0.0	#DIV/0!	0.0
0	2	TGATTATCC	4953	#DIV/0!	0.0	#DIV/0!
-1	0	TGATTGTAT	4954	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	1	TGCAATCGGC	4955	#DIV/0!	1.0	#DIV/0!
1	1	0	TGCAAGAAAGG	4956	1.0	0.0	0.0
1	1	1	TGCAGCGAGT	4957	1.0	0.0	0.0
1	1	0	TGCAAGGTGCC	4958	0.0	#DIV/0!	1.0
1	1	0	TGCAGGGTTGC	4959	1.0	0.0	0.0
1	1	0	TGCAAGTGGAA	4960	0.0	#DIV/0!	1.0
0	0	2	TGCATCAAAA	4961	#DIV/0!	0.0	#DIV/0!
0	0	2	TGCCAGGAAA	4962	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	1	TGCCCTTCGGT	4963	0.0	#DIV/0!	1.0
-1	0	1	TGCCGCAAGTC	4964	0.0	#DIV/0!	1.0
0	0	2	TGCTAACCGC	4965	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	TGCTGTACCA	4966	1.0	0.0	0.0
0	0	2	TGGACAAATGT	4967	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TGGACATCCT	4968	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TGGACATCTA	4969	#DIV/0!	0.0	#DIV/0!
2	0	0	TGGACGAATA	4970	0.0	#DIV/0!	0.0
0	1	-1	TGGATACTCA	4971	#DIV/0!	1.0	#DIV/0!
-1	0	1	TGGCGGGGCCA	4972	0.0	#DIV/0!	1.0
0	1	1	TGGGACACTA	4973	#DIV/0!	1.0	#DIV/0!
1	1	0	TGGGAGAGC	4974	1.0	0.0	0.0
0	0	2	TGGGTGTAGA	4975	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TGGTAACAGA	4976	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	TGGTAATTAT	4977	0.0	#DIV/0!	0.0
0	1	1	TGGTCAGTAT	4978	#DIV/0!	1.0	#DIV/0!
0	0	2	TGGTCCTCCC	4979	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TGGTCGGAGT	4980	#DIV/0!	0.0	#DIV/0!
0	1	1	TGGTCTGCT	4981	#DIV/0!	1.0	#DIV/0!
0	-1	1	TGGTTTATT	4982	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

1	1	0	TGTAAAAAAA	4983	1.0	0.0	0.0
2	0	0	TGTAAACGGT	4984	0.0	#DIV/0!	0.0
1	0	1	TGTAAATTAT	4985	0.0	#DIV/0!	1.0
0	1	1	TGTAAATGG	4986	#DIV/0!	1.0	#DIV/0!
0	0	2	TGTACGTGGT	4987	#DIV/0!	0.0	#DIV/0!
1	1	0	TGTAGATTAT	4988	1.0	0.0	0.0
1	1	0	TGTAGCAATT	4989	1.0	0.0	0.0
1	1	0	TGTATCAATA	4990	0.0	#DIV/0!	1.0
0	1	1	TGTATCCAAC	4991	#DIV/0!	1.0	#DIV/0!
1	1	0	TGTATTTTTG	4992	1.0	0.0	0.0
0	0	1	TGTCAAGAAT	4993	#DIV/0!	1.0	#DIV/0!
0	0	1	TGTCTCCTC	4994	#DIV/0!	1.0	#DIV/0!
1	1	0	TGTCCCTCTC	4995	1.0	0.0	0.0
0	0	2	TGTCTCGTGA	4996	#DIV/0!	0.0	#DIV/0!
0	1	1	TGTGGCTTGT	4997	#DIV/0!	1.0	#DIV/0!
0	0	0	TGTGTTAACG	4998	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TGTAAACCT	4999	#DIV/0!	0.0	#DIV/0!
0	2	0	TGTCAAATA	5000	#DIV/0!	0.0	#DIV/0!
0	2	0	TGTTTATAAG	5001	#DIV/0!	0.0	#DIV/0!
0	2	0	TGTTTTAGCA	5002	#DIV/0!	0.0	#DIV/0!
-1	0	1	TGTTTCAIT	5003	0.0	#DIV/0!	1.0
-1	1	0	TGTTTAAA	5004	1.0	0.0	0.0
0	2	0	TGTTTTCAC	5005	#DIV/0!	0.0	#DIV/0!
0	1	1	TTAAAGGTGC	5006	#DIV/0!	1.0	#DIV/0!
-1	1	0	TTAAATATAT	5007	1.0	0.0	0.0
0	1	-1	TTAAATGTTT	5008	#DIV/0!	1.0	#DIV/0!
-1	0	1	TTAATCGAAG	5009	0.0	#DIV/0!	1.0
-1	1	0	TTAATGAAGC	5010	1.0	0.0	0.0

Table 5, cont.

0	2	0	TTAATGCCGTG	5011	#DIV/0!	0.0	#DIV/0!
1	1	0	TTAATGGTAT	5012	1.0	0.0	0.0
0	2	0	TTAATGTTT	5013	#DIV/0!	0.0	#DIV/0!
1	1	0	TTACAGAACG	5014	1.0	0.0	0.0
1	1	0	TTACAGCTCA	5015	1.0	0.0	0.0
1	1	0	TTACCGATT	5016	1.0	0.0	0.0
0	1	1	TTACGATCAT	5017	#DIV/0!	1.0	#DIV/0!
0	2	0	TTACICAATT	5018	#DIV/0!	0.0	#DIV/0!
1	1	0	TTACTTCCTT	5019	1.0	0.0	0.0
2	0	0	TTAGATGCCAA	5020	0.0	#DIV/0!	0.0
1	1	0	TTAGGGTTGG	5021	1.0	0.0	0.0
0	1	1	TTAGTCCAAA	5022	#DIV/0!	1.0	#DIV/0!
0	1	1	TTAGTGTCTA	5023	#DIV/0!	1.0	#DIV/0!
1	0	1	TTATGATAGG	5024	0.0	#DIV/0!	1.0
1	1	0	TTATGCTTAT	5025	1.0	0.0	0.0
2	0	0	TTATGGATGC	5026	0.0	#DIV/0!	0.0
0	1	1	TTATTATGGG	5027	#DIV/0!	1.0	#DIV/0!
1	1	0	TTATTCGGC	5028	1.0	0.0	0.0
0	1	1	TTATTGACGC	5029	#DIV/0!	1.0	#DIV/0!
1	1	0	TTATTTCAAA	5030	1.0	0.0	0.0
1	1	0	TTATTTTT	5031	1.0	0.0	0.0
0	2	0	TTCAACTAAT	5032	#DIV/0!	0.0	#DIV/0!
0	0	2	TTCACAAATTG	5033	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TTCACCGGAA	5034	#DIV/0!	1.0	#DIV/0!
0	1	1	TTCACCTGTC	5035	#DIV/0!	1.0	#DIV/0!
1	1	0	TTCAGCCAAT	5036	1.0	0.0	0.0
1	1	0	TTCAGTGTAA	5037	1.0	0.0	0.0
0	2	0	TTCATCAACA	5038	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	2	TTCATCGCCT	5039	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TCCCAATGGG	5040	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TTCCACGGAC	5041	0.0	#DIV/0!	1.0
0	1	1	TTCCCGTACA	5042	#DIV/0!	1.0	#DIV/0!
0	0	2	TTCCCTTAA	5043	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TTCCCTTAGCT	5044	0.0	#DIV/0!	1.0
2	0	0	TTCCCTTGTCTT	5045	0.0	#DIV/0!	0.0
1	0	1	TTCGACATAT	5046	0.0	#DIV/0!	1.0
0	1	1	TTCCGCCGCTC	5047	#DIV/0!	1.0	#DIV/0!
1	0	1	TTGGGTCAG	5048	0.0	#DIV/0!	1.0
0	1	1	TTGGTCACTT	5049	#DIV/0!	1.0	#DIV/0!
1	1	0	TTGGTTCGCT	5050	1.0	0.0	0.0
2	0	0	TTCTAATATT	5051	0.0	#DIV/0!	0.0
0	0	2	TTCTCAAGTC	5052	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	TTCTGGCATAT	5053	1.0	0.0	0.0
0	2	0	TTCTTGTTAC	5054	#DIV/0!	0.0	#DIV/0!
0	2	0	TTCTTTAATG	5055	#DIV/0!	0.0	#DIV/0!
0	1	1	TTGAAAGATT	5056	#DIV/0!	1.0	#DIV/0!
0	1	1	TTGAAATAAG	5057	#DIV/0!	1.0	#DIV/0!
-1	0	1	TTGAACAGCT	5058	0.0	#DIV/0!	1.0
1	0	1	TTGATAATGA	5059	0.0	#DIV/0!	1.0
0	2	0	TTGATCAACA	5060	#DIV/0!	0.0	#DIV/0!
1	0	1	TTGATGAAAG	5061	0.0	#DIV/0!	1.0
1	1	0	TTGATTCAA	5062	1.0	0.0	0.0
2	0	0	TTGATTGACC	5063	0.0	#DIV/0!	0.0
1	0	1	TTGCAAGGTG	5064	0.0	#DIV/0!	1.0
0	2	0	TTGCACCTCT	5065	#DIV/0!	0.0	#DIV/0!
-1	1	0	TTGCAGGCCT	5066	1.0	0.0	0.0

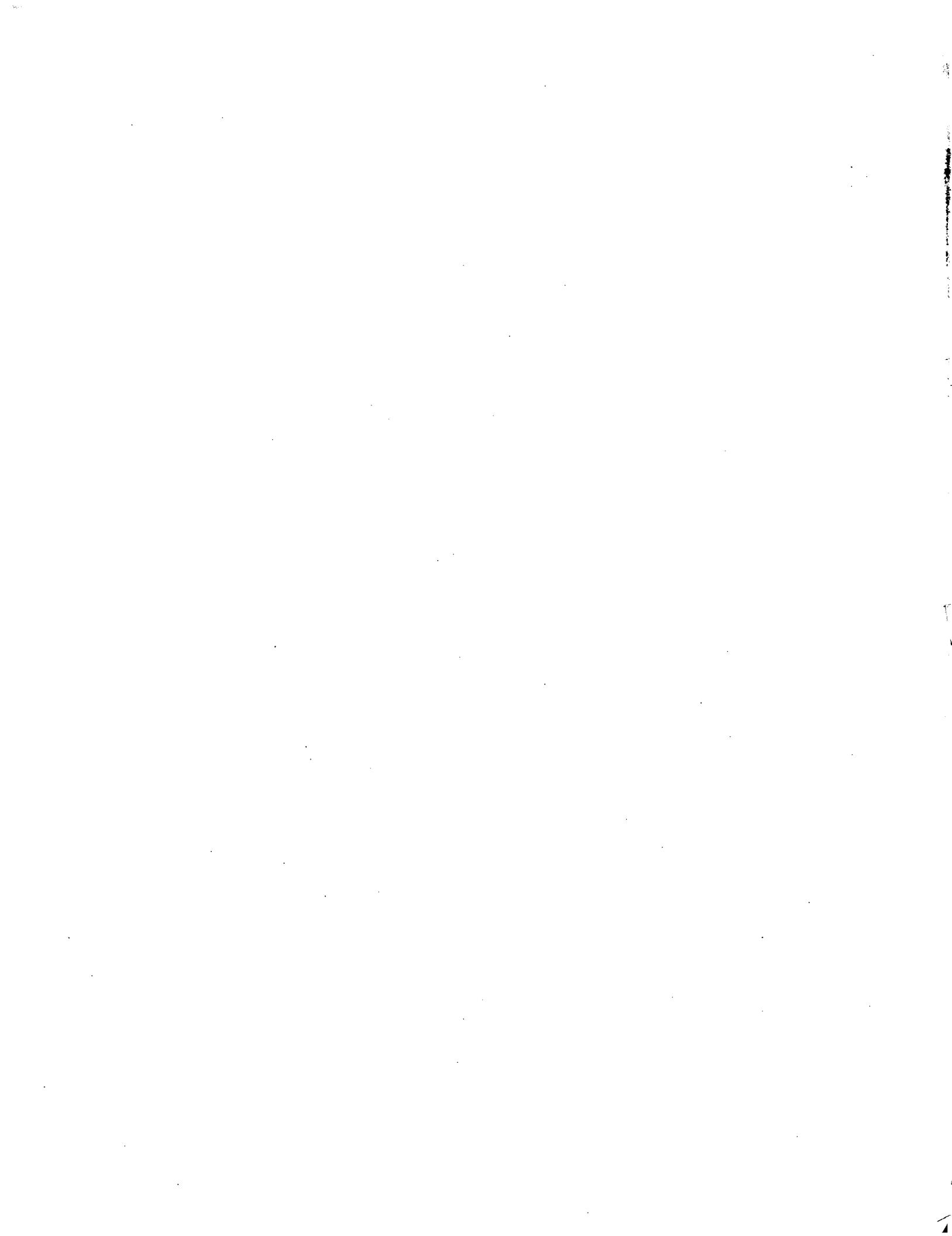


Table 5, cont.

1	0	TTTCAATTAC	5095	0.0	#DIV/0!	1.0
0	1	TTTCAATTGC	5096	#DIV/0!	1.0	#DIV/0!
0	2	TTTCATTCC	5097	#DIV/0!	0.0	#DIV/0!
0	2	TTTCAGAA	5098	#DIV/0!	0.0	#DIV/0!
1	1	TTTCATCA	5099	1.0	0.0	0.0
2	0	TTTCCCAAAGA	5100	0.0	#DIV/0!	0.0
1	1	TTTCTTCAAC	5101	1.0	0.0	0.0
0	1	TTTGAAAGTA	5102	#DIV/0!	1.0	#DIV/0!
1	0	TTTGAGGGCA	5103	0.0	#DIV/0!	1.0
0	1	TTTGCATTC	5104	#DIV/0!	1.0	#DIV/0!
-1	1	TTTGCATCG	5105	1.0	0.0	0.0
0	1	TTTGCCTAAA	5106	#DIV/0!	1.0	#DIV/0!
1	1	TTTGGCTTGGT	5107	1.0	0.0	0.0
0	2	TTTGGATAGT	5108	#DIV/0!	0.0	#DIV/0!
0	2	TTTGGTCGTA	5109	#DIV/0!	#DIV/0!	#DIV/0!
0	1	TTTGGTCTTG	5110	0.0	#DIV/0!	1.0
2	0	TTTGGTTCA	5111	0.0	#DIV/0!	0.0
1	0	TTTGGTTCG	5112	0.0	#DIV/0!	1.0
-1	0	TTTAAATA	5113	0.0	#DIV/0!	1.0
0	1	TTTAAGATT	5114	#DIV/0!	1.0	#DIV/0!
2	0	TTTTATATAA	5115	0.0	#DIV/0!	0.0
1	1	TTTTATATT	5116	1.0	0.0	0.0
0	0	TTTCAAAATT	5117	#DIV/0!	#DIV/0!	#DIV/0!
2	0	TTTCCAAA	5118	0.0	#DIV/0!	0.0
0	1	TTTCCAATC	5119	#DIV/0!	1.0	#DIV/0!
0	2	TTTCCCTCTT	5120	#DIV/0!	0.0	#DIV/0!
0	1	TTTGACCA	5121	#DIV/0!	1.0	#DIV/0!
0	2	TTTCTTCT	5122	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	TTTTGATTT	5123	#DIV/0!	0.0		#DIV/0!
0	1	1	TTTTGGGACT	5124	#DIV/0!	1.0		#DIV/0!
1	1	0	TTTTAAAAAA	5125	1.0	0.0	0.0	
0	2	0	TTTTAAGCA	5126	#DIV/0!	0.0		#DIV/0!
1	1	0	TTTTAAATAC	5127	1.0	0.0	0.0	
1	1	0	TTTTTAATAG	5128	1.0	0.0	0.0	
1	1	0	TTTTATAAT	5129	1.0	0.0	0.0	
0	1	1	TTTTCCCTT	5130	#DIV/0!	1.0		#DIV/0!
2	0	0	TTTTTCATTT	5131	0.0	#DIV/0!	0.0	
0	2	0	TTTTTCTTAA	5132	#DIV/0!	0.0		#DIV/0!
1	1	0	TTTTTTGGA	5133	1.0	0.0	0.0	
1	0	0	AAAAAAAAG	5134	0.0	#DIV/0!	0.0	
1	0	0	AAAAAAAAT	5135	0.0	#DIV/0!	0.0	
0	1	0	AAAAAAAATC	5136	#DIV/0!	0.0		#DIV/0!
0	0	1	AAAAAAACTC	5137	#DIV/0!	0.0		#DIV/0!
0	0	1	AAAAAAAGAA	5138	#DIV/0!	0.0		#DIV/0!
0	1	0	AAAAAAAGCG	5139	#DIV/0!	0.0		#DIV/0!
0	0	1	AAAAAAATTG	5140	#DIV/0!	0.0		#DIV/0!
0	1	0	AAAAAAACAA	5141	#DIV/0!	0.0		#DIV/0!
0	1	0	AAAAAAACGAT	5142	#DIV/0!	0.0		#DIV/0!
0	0	1	AAAAAAAGAGA	5143	#DIV/0!	0.0		#DIV/0!
0	0	1	AAAAAAAGGTC	5144	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	AAAAAAATAAA	5145	#DIV/0!	0.0		#DIV/0!
0	0	1	AAAAAAATAAT	5146	#DIV/0!	#DIV/0!		#DIV/0!
1	0	0	AAAAAAATCCT	5147	0.0	#DIV/0!	0.0	
0	1	0	AAAAAAATCTG	5148	#DIV/0!	0.0		#DIV/0!
1	0	0	AAAAAAATGCA	5149	0.0	#DIV/0!	0.0	
0	1	0	AAAAAAATTCA	5150	#DIV/0!	0.0		#DIV/0!

Table 5, cont.

1	0	0	AAAAAAATTA	5151	0.0	#DIV/0!	0.0
0	1	0	AAAACACATCT	5152	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAAACCCT	5153	#DIV/0!	0.0	#DIV/0!
0	0	0	AAAACCCAG	5154	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAAACCCAT	5155	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAACTATT	5156	0.0	#DIV/0!	#DIV/0!
1	1	0	AAAAACTCAA	5157	0.0	#DIV/0!	0.0
0	0	1	AAAACACTAT	5158	#DIV/0!	0.0	#DIV/0!
0	0	0	AAAACACTTT	5159	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAAGAAAA	5160	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AAAAAGAGAC	5161	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAGAGCA	5162	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAAGAGGG	5163	0.0	#DIV/0!	0.0
0	0	0	AAAAAGCAAG	5164	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAGGCAAT	5165	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAGGGCGA	5166	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAGTAGC	5167	#DIV/0!	0.0	#DIV/0!
1	1	0	AAAAGTCGC	5168	0.0	#DIV/0!	0.0
0	0	1	AAAAATACGA	5169	#DIV/0!	0.0	#DIV/0!
1	1	0	AAAAATCATC	5170	0.0	#DIV/0!	0.0
0	0	0	AAAAATCCC	5171	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAATGGGA	5172	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAATTCCA	5173	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAATTCC	5174	0.0	#DIV/0!	0.0
1	1	0	AAAAATTGT	5175	0.0	#DIV/0!	0.0
1	1	0	AAAACAACAA	5176	0.0	#DIV/0!	0.0
1	1	0	AAAACAAGCC	5177	0.0	#DIV/0!	0.0
0	0	1	AAAACAGTGA	5178	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AAAACATATC	5179	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACCCCAAT	5180	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAAACCCCTT	5181	0.0	#DIV/0!	0.0
0	0	1	AAAACCTTTG	5182	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACCGCTA	5183	0.0	#DIV/0!	0.0
1	0	0	AAAACCTATT	5184	0.0	#DIV/0!	0.0
0	0	1	AAAACCTGGT	5185	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAACCTTGC	5186	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAGACCTA	5187	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAGATCTG	5188	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAGCACCC	5189	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAGCGATG	5190	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGGCTA	5191	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAGGGGG	5192	0.0	#DIV/0!	0.0
1	0	0	AAAAGCTACA	5193	0.0	#DIV/0!	0.0
0	0	1	AAAAGGATAT	5194	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAGGCCAG	5195	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGCCGT	5196	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGGGAA	5197	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGTACA	5198	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGTCAT	5199	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGTACCT	5200	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGTCACA	5201	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAGTCAA	5202	0.0	#DIV/0!	0.0
0	0	1	AAAAGGGTG	5203	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAAGTTTGA	5204	0.0	#DIV/0!	0.0
1	0	0	AAAATAAACC	5205	0.0	#DIV/0!	0.0
0	1	0	AAAATAAATA	5206	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	0	1	AAAATAAGGC	5207	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	AAAATAATCT	5208	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	0	AAAATACAGA	5209	#DIV/0!	0.0	#DIV/0!
0	0	1	0	AAAATACTAC	5210	#DIV/0!	0.0	#DIV/0!
0	0	0	1	AAAATACTAT	5211	#DIV/0!	0.0	#DIV/0!
1	0	0	0	AAAATAGCTT	5212	0.0	#DIV/0!	#DIV/0!
0	1	0	0	AAAATCAACT	5213	#DIV/0!	0.0	#DIV/0!
0	0	0	1	AAAATCTGGT	5214	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	AAAATGAGAA	5215	#DIV/0!	0.0	#DIV/0!
0	0	0	1	AAAATGCATC	5216	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	AAAATGCTAA	5217	0.0	#DIV/0!	#DIV/0!
0	1	0	0	AAAATGGAAA	5218	#DIV/0!	0.0	0.0
0	1	0	0	AAAATGTAGA	5219	#DIV/0!	0.0	#DIV/0!
0	1	0	0	AAAATGTTA	5220	#DIV/0!	0.0	#DIV/0!
1	0	0	0	AAAATTAAAGG	5221	0.0	#DIV/0!	0.0
0	1	0	0	AAAATTAGTT	5222	#DIV/0!	0.0	#DIV/0!
1	0	0	0	AAAATTCCCTT	5223	0.0	#DIV/0!	0.0
0	0	0	1	AAAATTGGAA	5224	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	0	AAAATTTGAA	5225	#DIV/0!	0.0	#DIV/0!
0	1	0	0	AAAATTTTAT	5226	#DIV/0!	0.0	#DIV/0!
0	0	0	1	AAACAAACC	5227	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	AAACAAACGT	5228	0.0	#DIV/0!	0.0
1	0	0	0	AAACAAAGAC	5229	0.0	#DIV/0!	0.0
0	0	0	1	AAACAAAGTG	5230	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	AAACAAATCT	5231	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	AAACAGGTC	5232	0.0	#DIV/0!	0.0
1	0	0	0	AAACACAAAA	5233	0.0	#DIV/0!	0.0
0	0	0	1	AAACACACAG	5234	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AAACACCCAC	5235	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACACCGAC	5236	#DIV/0!	0.0	#DIV/0!
0	0	1	AAACAGAAC	5237	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACAGAGCA	5238	#DIV/0!	0.0	#DIV/0!
0	0	1	AAACATAAAA	5239	#DIV/0!	0.0	#DIV/0!
-1	0	0	AAACCAACTC	5240	0.0	#DIV/0!	#DIV/0!
-1	0	0	AAACCCACCTA	5241	0.0	#DIV/0!	0.0
-1	0	0	AAACCATTGC	5242	0.0	#DIV/0!	0.0
-1	0	0	AAACCCGAAT	5243	0.0	#DIV/0!	0.0
-1	0	0	AAACCGAATT	5244	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACCGCCAT	5245	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACGGCTG	5246	#DIV/0!	0.0	#DIV/0!
0	0	1	AAACGGTCAT	5247	#DIV/0!	0.0	#DIV/0!
1	0	0	AAACCTTGGAG	5248	0.0	#DIV/0!	0.0
0	0	1	AAACGAAACC	5249	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACGACGAC	5250	0.0	#DIV/0!	#DIV/0!
1	0	0	AAACGATACC	5251	0.0	#DIV/0!	0.0
1	0	0	AAACGATTAG	5252	0.0	#DIV/0!	0.0
1	0	0	AAACGCAGAA	5253	0.0	#DIV/0!	0.0
0	1	0	AAACGCCGCT	5254	#DIV/0!	0.0	#DIV/0!
1	0	0	AAACGGAAG	5255	0.0	#DIV/0!	0.0
0	1	0	AAACGGGAGC	5256	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACGGGGTA	5257	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACGTAGGA	5258	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACTAAAC	5259	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACTAACTC	5260	#DIV/0!	0.0	#DIV/0!
0	0	1	AAACTAGGAA	5261	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAACTATACA	5262	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	AAACTATCCT	5263	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACTCTGCC	5264	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACTGAAA	5265	0.0	#DIV/0!	0.0
0	0	1	AAACTGGGT	5266	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACTGTGCT	5267	0.0	#DIV/0!	0.0
1	0	0	AAACTGTTGA	5268	0.0	#DIV/0!	0.0
1	1	0	AAACCTTATG	5269	0.0	#DIV/0!	0.0
0	0	1	AAACCTTTT	5270	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGAAATTG	5271	0.0	#DIV/0!	0.0
0	0	0	AAAGAACTGT	5272	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AAAGAACTTC	5273	0.0	#DIV/0!	0.0
1	1	0	AAAGAAGAAC	5274	0.0	#DIV/0!	0.0
1	1	0	AAAGAAGATA	5275	0.0	#DIV/0!	0.0
0	0	1	AAAGAATATA	5276	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGAATCTC	5277	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAGACAAAA	5278	0.0	#DIV/0!	0.0
0	0	0	AAAGACAAC	5279	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGACAGGG	5280	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGACCAGA	5281	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGACCTAC	5282	#DIV/0!	0.0	#DIV/0!
0	0	0	AAAGACGAAG	5283	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGACGGCG	5284	0.0	#DIV/0!	0.0
0	1	0	AAAGACGGAG	5285	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGACGGTAT	5286	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGACTACT	5287	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGACTCAA	5288	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGAGATCA	5289	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAGAGCCCA	5290	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	AAAGATAAAG	5291	#DIV/0!		#DIV/0!
0	1	0	AAAGGATTGCG	5292	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGCACCAC	5293	#DIV/0!	0.0	#DIV/0!
-1	0	0	AAAGCATAAT	5294	0.0	#DIV/0!	0.0
0	1	0	AAAGCCAGAA	5295	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGCCAGAC	5296	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAAGCCCCCAA	5297	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGCCGATGA	5298	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGGGGTAT	5299	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGCTAACG	5300	#DIV/0!	0.0	#DIV/0!
-1	1	0	AAAGCTAACCC	5301	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGCTAGCA	5302	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGCTCCAG	5303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGCTGATG	5304	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	AAAGCTTTT	5305	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGGAATTG	5306	#DIV/0!	0.0	#DIV/0!
0	0	0	AAAGGAATTT	5307	0.0	#DIV/0!	0.0
0	0	0	AAAGGAGTGA	5308	0.0	#DIV/0!	0.0
0	0	0	AAAGGATACC	5309	0.0	#DIV/0!	0.0
0	0	0	AAAGGCCAGA	5310	0.0	#DIV/0!	0.0
0	0	1	AAAGGCCTGC	5311	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGGCCGAGG	5312	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGGGGGGG	5313	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGGGCACA	5314	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAAGGGGTGC	5315	0.0	#DIV/0!	0.0
0	1	0	AAAGGTAAAG	5316	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGGTCTCA	5317	#DIV/0!	0.0	#DIV/0!
0	-1	0	AAAGGTAA	5318	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	AAAGTATCAC	5319	0.0	#DIV/0!	0.0
0	1	0	AAAGTATGCC	5320	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGTCAGAG	5321	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGTCCCCA	5322	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGTCGATA	5323	0.0	#DIV/0!	0.0
1	0	0	AAAGTGCACG	5324	0.0	#DIV/0!	0.0
1	1	0	AAAGTGGCGC	5325	0.0	#DIV/0!	0.0
0	0	1	AAAGTGCCTG	5326	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AAAGGTGGC	5327	0.0	#DIV/0!	0.0
0	0	0	AAAGTTAGGT	5328	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AAAGTTTACC	5329	0.0	#DIV/0!	0.0
0	1	0	AAAGTTTCTT	5330	#DIV/0!	0.0	#DIV/0!
1	1	0	AAATAATGA	5331	0.0	#DIV/0!	0.0
0	0	1	AAATAAATTC	5332	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAATAACAAA	5333	0.0	#DIV/0!	0.0
0	0	1	AAATAAGTAA	5334	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATAAGTAT	5335	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATAATAAA	5336	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATAATAAC	5337	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATAATATC	5338	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATATATGT	5339	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATACCGTA	5340	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATACGACT	5341	0.0	#DIV/0!	0.0
0	1	0	AAATAGTGGT	5342	#DIV/0!	0.0	#DIV/0!
1	1	0	AAATATAAAT	5343	0.0	#DIV/0!	0.0
0	1	0	AAATATATCT	5344	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATATTCAT	5345	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATATTTTT	5346	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AAATCAACAC	5347	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATCAAGAT	5348	0.0	#DIV/0!	0.0
0	-1	0	AAATCATTAG	5349	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATCAATT	5350	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATCACTT	5351	#DIV/0!	0.0	#DIV/0!
0	-1	0	AAATCCCTCA	5352	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATCGAAGG	5353	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATCGAATC	5354	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATCTTGAA	5355	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATGAATT	5356	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAATGACGAT	5357	0.0	#DIV/0!	#DIV/0!
0	0	0	AAATGACTTT	5358	#DIV/0!	#DIV/0!	0.0
0	0	1	AAATGAGTGG	5359	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	AAATGATAGC	5360	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATGATTA	5361	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAATGGCTCGT	5362	0.0	#DIV/0!	#DIV/0!
0	0	1	AAATGGAAATT	5363	#DIV/0!	0.0	0.0
0	1	0	AAATGGATGA	5364	#DIV/0!	0.0	#DIV/0!
0	0	-1	AAATGTAGGA	5365	#DIV/0!	0.0	#DIV/0!
0	-1	0	AAATGTATAA	5366	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATGTTACT	5367	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATGTTATT	5368	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATTAAAGC	5369	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAATTAGATG	5370	0.0	#DIV/0!	#DIV/0!
-1	0	0	AAATTATCAA	5371	0.0	#DIV/0!	0.0
0	1	0	AAATTCATT	5372	#DIV/0!	0.0	0.0
0	1	0	AAATTCCAAA	5373	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATTGAAAA	5374	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AAATTTCGTCA	5375	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATTTCTCTA	5376	#DIV/0!	0.0	#DIV/0!
-1	0	0	AAATTGAAAA	5377	0.0	#DIV/0!	0.0
-1	0	0	AAATTGAGAA	5378	0.0	#DIV/0!	0.0
-1	0	0	AAATTGGCG	5379	0.0	#DIV/0!	0.0
-1	0	0	AAATTGGTGC	5380	0.0	#DIV/0!	0.0
0	0	1	AAATTGTTCC	5381	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATTTAGTT	5382	#DIV/0!	0.0	#DIV/0!
0	0	0	AAATTTATAC	5383	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATTTCATA	5384	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATTTCGTT	5385	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATTTCCTCG	5386	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATTTCCTGC	5387	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATTTCITC	5388	0.0	#DIV/0!	0.0
1	0	0	AAATTGTGTT	5389	0.0	#DIV/0!	0.0
0	0	0	AAATTTTACA	5390	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATTTTTTT	5391	0.0	#DIV/0!	0.0
0	0	0	AACAAAAGGA	5392	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AACAAAAGGG	5393	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACAAAGACC	5394	#DIV/0!	0.0	#DIV/0!
1	0	0	AACAAAGGA	5395	0.0	#DIV/0!	0.0
0	0	0	AACAAATATA	5396	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACAAATCAG	5397	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAAACAAT	5398	#DIV/0!	0.0	#DIV/0!
0	0	0	AACAAACAAGC	5399	#DIV/0!	0.0	#DIV/0!
0	0	0	AACAACTCTT	5400	#DIV/0!	0.0	#DIV/0!
0	0	1	AACAAAGCCTT	5401	#DIV/0!	0.0	#DIV/0!
-1	0	0	AACAAAGGGT	5402	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	AACAAGGTGG	5403	#DIV/0!	#DIV/0!
0	0	1	AACAAGTACC	5404	#DIV/0!	#DIV/0!
0	0	1	AACAAGTCCA	5405	#DIV/0!	#DIV/0!
0	1	0	AACAAATATCT	5406	#DIV/0!	#DIV/0!
0	1	0	AACAAATCAA	5407	#DIV/0!	#DIV/0!
0	0	1	AACAAATCAAT	5408	#DIV/0!	#DIV/0!
0	0	1	AACAAATCCGT	5409	#DIV/0!	#DIV/0!
0	0	1	AACACAAAAT	5410	#DIV/0!	#DIV/0!
1	-1	0	AACACAAAGC	5411	0.0	#DIV/0!
0	0	0	AACACAAAGC	5412	#DIV/0!	0.0
0	0	1	AACACACCTT	5413	#DIV/0!	#DIV/0!
0	0	1	AACACATCAA	5414	#DIV/0!	#DIV/0!
1	0	0	AACACCACTC	5415	0.0	#DIV/0!
0	0	1	AACACCATCA	5416	#DIV/0!	0.0
0	0	1	AACACCCCTT	5417	#DIV/0!	#DIV/0!
0	0	1	AACACCGCTT	5418	#DIV/0!	#DIV/0!
0	0	0	AACACGAAGA	5419	#DIV/0!	#DIV/0!
0	0	1	AACACGACAA	5420	#DIV/0!	#DIV/0!
0	0	1	AACACGATGG	5421	#DIV/0!	#DIV/0!
0	0	1	AACACGGAGT	5422	#DIV/0!	#DIV/0!
0	-1	0	AACACTAGGC	5423	#DIV/0!	#DIV/0!
1	0	0	AACACTTTAA	5424	0.0	#DIV/0!
0	1	0	AACAGAAATT	5425	#DIV/0!	0.0
1	0	0	AACAGAGATG	5426	0.0	#DIV/0!
0	0	1	AACAGATCAG	5427	#DIV/0!	0.0
0	-1	0	AACAGCAGCC	5428	#DIV/0!	#DIV/0!
0	1	0	AACAGGCTCA	5429	#DIV/0!	#DIV/0!
0	-1	0	AACAGTAGCT	5430	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	AACAGTTCA	5431	#DIV/0!	#DIV/0!	#DIV/0!
0	0	AACAGTTGG	5432	#DIV/0!	#DIV/0!	#DIV/0!
1	0	AACATAATAA	5433	0.0	#DIV/0!	0.0
0	1	AACATAATAT	5434	#DIV/0!	0.0	#DIV/0!
1	0	AACATACCG	5435	0.0	#DIV/0!	0.0
0	1	AACATATAGC	5436	#DIV/0!	0.0	#DIV/0!
0	0	AACATATGCA	5437	#DIV/0!	#DIV/0!	#DIV/0!
0	0	AACATCAAGA	5438	#DIV/0!	#DIV/0!	#DIV/0!
0	0	AACATCAGTG	5439	#DIV/0!	#DIV/0!	#DIV/0!
0	1	AACATCCAAT	5440	#DIV/0!	0.0	#DIV/0!
1	0	AACATTATT	5441	0.0	#DIV/0!	0.0
0	1	AACATTCAAT	5442	#DIV/0!	0.0	0.0
1	0	AACATTTACC	5443	0.0	#DIV/0!	0.0
1	0	AACATTTTT	5444	0.0	#DIV/0!	0.0
1	0	AACCAAACCT	5445	0.0	#DIV/0!	0.0
1	0	AACCAAACGT	5446	0.0	#DIV/0!	0.0
0	0	AACCAAAGCT	5447	#DIV/0!	#DIV/0!	#DIV/0!
0	1	AACCAAAGCG	5448	#DIV/0!	0.0	#DIV/0!
1	0	AACCAATTG	5449	0.0	#DIV/0!	0.0
0	1	AACCCACTCAA	5450	#DIV/0!	0.0	#DIV/0!
0	0	AACCGACCA	5451	#DIV/0!	#DIV/0!	#DIV/0!
0	1	AACCGCGAA	5452	#DIV/0!	0.0	#DIV/0!
0	0	AACCATATGA	5453	#DIV/0!	#DIV/0!	#DIV/0!
0	0	AACCCAGTT	5454	#DIV/0!	#DIV/0!	#DIV/0!
1	0	AACCCAGTT	5455	0.0	#DIV/0!	0.0
1	0	AACCGGGACA	5456	0.0	#DIV/0!	0.0
0	0	AACCCCTCCGT	5457	#DIV/0!	#DIV/0!	#DIV/0!
0	1	AACCCCTCCA	5458	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AACCGGAAA	5459	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACCTACACA	5460	#DIV/0!	0.0	#DIV/0!
0	-1	0	AACCTAGAA	5461	#DIV/0!	0.0	#DIV/0!
0	-1	0	AACCTATTGG	5462	#DIV/0!	0.0	#DIV/0!
0	0	1	AACCTCCAGT	5463	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACCTCCTCT	5464	0.0	#DIV/0!	#DIV/0!
0	0	1	AACCTGTGTT	5465	#DIV/0!	#DIV/0!	0.0
-1	0	0	AACCTTGACC	5466	0.0	#DIV/0!	#DIV/0!
-1	0	0	AACCTTGGGT	5467	0.0	#DIV/0!	0.0
-1	0	0	AACCTTIGA	5468	0.0	#DIV/0!	#DIV/0!
0	0	1	AACGAAAAAA	5469	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGAAAGAA	5470	#DIV/0!	0.0	#DIV/0!
0	-1	0	AACGAAAGTA	5471	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGAACAGT	5472	#DIV/0!	0.0	#DIV/0!
0	0	-1	AACGAATCGT	5473	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACGAATTTC	5474	#DIV/0!	0.0	#DIV/0!
0	-1	0	AACGACAGAG	5475	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGACCGAG	5476	#DIV/0!	0.0	#DIV/0!
1	0	0	AACGACCTGA	5477	0.0	#DIV/0!	#DIV/0!
1	0	0	AACGATAACGA	5478	0.0	#DIV/0!	0.0
1	0	0	AACGATCCTT	5479	0.0	#DIV/0!	0.0
0	-1	0	AACGGATATA	5480	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGGATTTC	5481	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACGGTATGA	5482	0.0	#DIV/0!	#DIV/0!
0	1	0	AACGGTTAAA	5483	#DIV/0!	0.0	#DIV/0!
0	-1	0	AACGGTTCTC	5484	#DIV/0!	0.0	#DIV/0!
1	0	0	AACGGTTTA	5485	0.0	#DIV/0!	0.0
0	0	1	AACGGGCCAG	5486	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AACGGAGAGA	5487	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGGATAGA	5488	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGGCAATT	5489	#DIV/0!	0.0	#DIV/0!
-1	0	0	AACGGCCGAA	5490	0.0	#DIV/0!	0.0
0	0	1	AACGGTCGTG	5491	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACGTCATA	5492	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGTCACCA	5493	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGTCGAGC	5494	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACGTCGGA	5495	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACGTCGCT	5496	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGTTCCAA	5497	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACGTTTCGA	5498	#DIV/0!	0.0	#DIV/0!
0	1	0	AACTAAACTC	5499	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTAAACTT	5500	0.0	#DIV/0!	0.0
-1	0	0	AACTAAATAT	5501	0.0	#DIV/0!	0.0
0	1	0	AACTAAGCCC	5502	#DIV/0!	0.0	#DIV/0!
0	1	0	AACTACATTC	5503	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTACCGTC	5504	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTACCGTT	5505	0.0	#DIV/0!	0.0
0	1	0	AACTACTTCG	5506	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTAGACTG	5507	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTATACCA	5508	0.0	#DIV/0!	0.0
1	0	0	AACTATTAA	5509	0.0	#DIV/0!	0.0
0	1	0	AACTCAGATG	5510	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTCGGTAT	5511	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACTCTCAAG	5512	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTCTCTGT	5513	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACTCTCTTA	5514	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	AACTCTGACT	5515	#DIV/0!	0.0	#DIV/0!
0	1	0	AACTGAAAGA	5516	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTGAATGT	5517	0.0	#DIV/0!	0.0
0	0	1	AACTGACCCG	5518	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGACCGA	5519	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGAGCAG	5520	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGAGGTC	5521	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGATTAT	5522	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGCCTTT	5523	#DIV/0!	0.0	#DIV/0!
0	-1	0	AACTGGAAAA	5524	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTGGCCAT	5525	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGGGGCT	5526	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTGTAGTC	5527	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGTGCTT	5528	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AACTTAACCTT	5529	0.0	#DIV/0!	0.0
0	0	1	AACTTAGTGT	5530	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AACTTCAGA	5531	0.0	#DIV/0!	0.0
-1	1	0	AACTTCGAAT	5532	0.0	#DIV/0!	0.0
0	1	0	AACTTCTGAA	5533	#DIV/0!	0.0	#DIV/0!
1	1	0	AACTTCTTGT	5534	0.0	#DIV/0!	0.0
0	0	1	AACTTGCCTC	5535	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	AACTTGGGA	5536	0.0	#DIV/0!	0.0
0	0	1	AACTTTACTA	5537	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTTTCAA	5538	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	1	AACTTTCTCG	5539	#DIV/0!	0.0	#DIV/0!
-1	1	0	AACTTGGAG	5540	0.0	#DIV/0!	0.0
0	0	1	AACTTTGTGA	5541	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AACTTTGGTTA	5542	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AACTTTGCG	5543	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTTTTCT	5544	0.0	#DIV/0!	0.0
1	1	0	AAGAAAAAAA	5545	0.0	#DIV/0!	0.0
1	1	0	AAGAAAAAAC	5546	0.0	#DIV/0!	0.0
0	0	0	AAGAAAAGTT	5547	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAAACGCA	5548	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AAGAAACCTT	5549	0.0	#DIV/0!	0.0
0	0	0	AAGAAATTAT	5550	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AAGAAATTTC	5551	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAACAAAGA	5552	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAACTAAA	5553	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGAACTGGG	5554	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGAAAGACAG	5555	0.0	#DIV/0!	0.0
0	0	1	AAGAAAGACCT	5556	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGAAAGCAAC	5557	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGAAAGCAGT	5558	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGAAAGCCAA	5559	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGAAAGCCAT	5560	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGAAAGCCGG	5561	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGAAAGCCCT	5562	#DIV/0!	0.0	#DIV/0!
1	1	0	AAGAAAGCGAC	5563	0.0	#DIV/0!	0.0
1	1	0	AAGAAGTACA	5564	0.0	#DIV/0!	0.0
0	0	0	AAGAAGTCCC	5565	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAAAGTTG	5566	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAAATAATT	5567	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAAATAGGC	5568	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AAGAAATGTGG	5569	0.0	#DIV/0!	0.0
0	1	0	AAGACAAAAA	5570	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	0	AAGACAACT	5571	0.0	#DIV/0!		0.0	
0	0	0	1	AAGACAGAGC	5572	#DIV/0!	#DIV/0!		#DIV/0!	
0	0	1	0	AAGACATACC	5573	#DIV/0!	0.0		#DIV/0!	
0	0	0	0	AAGACCAATT	5574	#DIV/0!	#DIV/0!		#DIV/0!	
0	0	1	0	AAGACGAAAA	5575	#DIV/0!	0.0		#DIV/0!	
0	0	0	1	AAGACGGATCG	5576	#DIV/0!	#DIV/0!		#DIV/0!	
0	0	0	0	AAGACGGATCT	5577	#DIV/0!	#DIV/0!		#DIV/0!	
0	0	1	0	AAGACTAAC	5578	#DIV/0!	0.0		#DIV/0!	
0	0	1	0	AAGACTCTAT	5579	#DIV/0!	0.0		#DIV/0!	
0	0	0	1	AAGACTGTGA	5580	#DIV/0!	#DIV/0!		#DIV/0!	
0	0	1	0	AAGAGAAAAA	5581	#DIV/0!	0.0		#DIV/0!	
1	0	0	0	AAGAGAAGGC	5582	0.0	#DIV/0!		#DIV/0!	
0	0	1	0	AAGAGAAGGT	5583	#DIV/0!	0.0		0.0	
1	0	0	0	AAGAGACAAC	5584	0.0	#DIV/0!		#DIV/0!	
0	0	0	1	AAGAGACCAG	5585	#DIV/0!	#DIV/0!		0.0	
0	0	1	0	AAGAGATGAT	5586	#DIV/0!	0.0		#DIV/0!	
0	0	1	0	AAGAGCAGAA	5587	#DIV/0!	0.0		#DIV/0!	
0	0	1	1	AAGAGCTGGT	5588	#DIV/0!	#DIV/0!		#DIV/0!	
1	0	0	0	AAGAGGAAAG	5589	0.0	#DIV/0!		#DIV/0!	
0	0	0	1	AAGAGTGCTG	5590	#DIV/0!	#DIV/0!		0.0	
0	0	1	0	AAGATATCAG	5591	#DIV/0!	0.0		#DIV/0!	
1	0	0	0	AAGATCACCG	5592	0.0	#DIV/0!		#DIV/0!	
0	0	0	1	AAGATCAGAA	5593	#DIV/0!	#DIV/0!		0.0	
0	0	1	0	AAGATCCAAA	5594	#DIV/0!	0.0		#DIV/0!	
0	0	0	1	AAGATGACAG	5595	#DIV/0!	#DIV/0!		#DIV/0!	
1	0	0	0	AAGATGCTT	5596	0.0	#DIV/0!		0.0	
0	0	1	0	AAGATGGCCA	5597	#DIV/0!	0.0		#DIV/0!	
1	0	0	0	AAGATTGGGT	5598	0.0	#DIV/0!		0.0	

Table 5, cont.

0	1	0	AAGATTTCAC	5599	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGATTTTG	5600	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGCAAATG	5601	0.0	#DIV/0!	0.0
0	1	0	AAGCAACTAA	5602	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGCACATTA	5603	#DIV/0!	0.0	#DIV/0!
0	0	-1	AAGCACCTGC	5604	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	AAGCACGTCA	5605	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	AAGCAGCTCA	5606	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	AAGCAGGTG	5607	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	AAGCATAAC	5608	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAGCCAGCAA	5609	0.0	#DIV/0!	0.0
0	1	0	AAGCCATCAC	5610	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGCCATT	5611	#DIV/0!	0.0	#DIV/0!
0	0	-1	AAGCCAAA	5612	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAGCCCATTT	5613	0.0	#DIV/0!	0.0
0	0	-1	AAGCGGGTGC	5614	#DIV/0!	0.0	#DIV/0!
0	0	-1	AAGGCCCTT	5615	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAGGAAATT	5616	0.0	#DIV/0!	0.0
1	0	0	AAGGGACTAA	5617	0.0	#DIV/0!	0.0
0	1	0	AAGGGGGTGC	5618	#DIV/0!	0.0	#DIV/0!
0	0	-1	AAGGCTAGATG	5619	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAGCTATGAG	5620	0.0	#DIV/0!	0.0
0	0	-1	AAGCTCCGTC	5621	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGCTGAACA	5622	0.0	#DIV/0!	0.0
-1	0	0	AAGCTGATGT	5623	0.0	#DIV/0!	0.0
0	0	-1	AAGCTGCTCG	5624	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGCTGGAAT	5625	#DIV/0!	0.0	#DIV/0!
0	-1	0	AAGCTTGTGTC	5626	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AAGCTTTGG	5627	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	AAGGAACCTAA	5628	#DIV/0!		#DIV/0!	#DIV/0!
-1	0	0	AAGGAAGATG	5629	0.0		#DIV/0!	0.0
1	0	0	AAGGAATAAG	5630	0.0		#DIV/0!	0.0
-1	0	0	AAGGAATCAG	5631	0.0		#DIV/0!	0.0
1	0	0	AAGGACAAAG	5632	0.0		#DIV/0!	0.0
0	0	0	AAGGACCCTTC	5633	#DIV/0!		#DIV/0!	0.0
1	0	0	AAGGACCTAA	5634	0.0		#DIV/0!	#DIV/0!
0	0	0	AAGGACGAGC	5635	#DIV/0!		#DIV/0!	0.0
0	0	1	AAGGACTACT	5636	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	AAGGACTGAG	5637	#DIV/0!		#DIV/0!	#DIV/0!
0	1	0	AAGGAGAAGT	5638	#DIV/0!		#DIV/0!	#DIV/0!
0	1	0	AAGGAGCCAG	5639	#DIV/0!	0.0		#DIV/0!
0	1	0	AAGGAGGCC	5640	#DIV/0!	0.0		#DIV/0!
0	1	0	AAGGAGGGCT	5641	#DIV/0!	0.0		#DIV/0!
1	0	0	AAGGAGTCTG	5642	0.0		#DIV/0!	#DIV/0!
1	0	0	AAGGGAGTGGC	5643	0.0		#DIV/0!	0.0
1	0	0	AAGGATAATG	5644	0.0		#DIV/0!	0.0
0	0	1	AAGGATGGTA	5645	#DIV/0!		#DIV/0!	0.0
-1	0	0	AAGGCCAATT	5646	0.0		#DIV/0!	#DIV/0!
0	0	1	AAGGCAAGAT	5647	#DIV/0!		#DIV/0!	0.0
0	0	1	AAGGCCAAGA	5648	#DIV/0!		#DIV/0!	#DIV/0!
-1	0	0	AAGGCCAGCG	5649	0.0		#DIV/0!	#DIV/0!
1	0	0	AAGGCCAGGG	5650	0.0		#DIV/0!	0.0
1	0	0	AAGGCCGAGC	5651	0.0		#DIV/0!	0.0
1	0	0	AAGGCTATT	5652	0.0		#DIV/0!	0.0
0	1	0	AAGGCCTTT	5653	#DIV/0!	0.0		#DIV/0!
0	0	1	AAGGCCAAT	5654	#DIV/0!		#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	AAGGGGTCAG	5655	0.0	#DIV/0!		0.0
0	0	1	AAGGGGTTGG	5656	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AAGGTATCA	5657	#DIV/0!	0.0	#DIV/0!	
0	0	0	AAGGGTATCG	5658	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AAGGTACGAT	5659	#DIV/0!	0.0	#DIV/0!	
-1	0	0	AAGGTATGGA	5660	0.0	#DIV/0!	0.0	#DIV/0!
-1	0	0	AAGGTCAAGC	5661	0.0	#DIV/0!	0.0	#DIV/0!
0	-1	0	AAGGTCAAGG	5662	#DIV/0!	0.0	#DIV/0!	
0	0	0	AAGGTCAAGG	5663	#DIV/0!	#DIV/0!	#DIV/0!	
-1	0	0	AAGGTGAGAG	5664	0.0	#DIV/0!	0.0	#DIV/0!
0	0	0	AAGGTCTGAGA	5665	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	-1	AAGGTGACAA	5666	#DIV/0!	0.0	#DIV/0!	
0	0	-1	AAGGTGTCAA	5667	#DIV/0!	0.0	#DIV/0!	
-1	0	0	AAGGTGTTTT	5668	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGGTCCCCG	5669	#DIV/0!	0.0	#DIV/0!	
0	0	0	AAGGTGATC	5670	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	0	AAGGTGCTC	5671	#DIV/0!	#DIV/0!	#DIV/0!	
-1	0	0	AAGTAATAG	5672	0.0	#DIV/0!	0.0	#DIV/0!
0	0	0	AAGTAACGT	5673	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AAGTACGTTG	5674	0.0	#DIV/0!	0.0	#DIV/0!
-1	0	0	AAGTATGACG	5675	0.0	#DIV/0!	0.0	#DIV/0!
-1	0	0	AAGTATGCC	5676	0.0	#DIV/0!	0.0	#DIV/0!
-1	0	0	AAGTATGCTC	5677	0.0	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTCAAAAA	5678	#DIV/0!	0.0	#DIV/0!	
0	1	0	AAGTCATAGC	5679	#DIV/0!	0.0	#DIV/0!	
0	-1	0	AAGTCGAATG	5680	#DIV/0!	0.0	#DIV/0!	
1	0	0	AAGTCATCGG	5681	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGTCTCTAC	5682	#DIV/0!	#DIV/0!	#DIV/0!	

Table 5, cont.

0	1	0	AAGTCTGAGC	5683	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGTCGGTG	5684	0.0	#DIV/0!	0.0
-1	0	0	AAGTGAACTC	5685	0.0	#DIV/0!	0.0
0	0	1	AAGTGAGTCA	5686	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGTGCAAAG	5687	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGTGCTGT	5688	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AAGTGGGCCA	5689	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTGTAGCT	5690	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGTGTGATA	5691	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AAGTGTGTT	5692	0.0	#DIV/0!	0.0
0	0	1	AAGTGTACC	5693	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTTAAAAA	5694	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGTTAGATA	5695	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTTATGAG	5696	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGTTCTCGC	5697	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGTTGATAT	5698	0.0	#DIV/0!	0.0
-1	1	0	AAGTTGCTAT	5699	0.0	#DIV/0!	0.0
0	1	0	AAGTTGGGAA	5700	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGTTTAATT	5701	0.0	#DIV/0!	0.0
-1	0	0	AAGTTTATGG	5702	0.0	#DIV/0!	0.0
0	0	1	AAGTTTCAGC	5703	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATAAAAGAA	5704	#DIV/0!	0.0	#DIV/0!
-1	0	0	AATAAAAGAG	5705	0.0	#DIV/0!	0.0
0	0	1	AATAAAATGA	5706	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATAAAATTA	5707	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAAACCCCT	5708	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAAAAGAT	5709	0.0	#DIV/0!	0.0
0	0	1	AATAAAAGTAC	5710	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AATAAATAACC	5711	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATAAACAAAC	5712	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAAACAGTT	5713	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAAACCTTA	5714	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAAAGAGCA	5715	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAAAGCCCT	5716	0.0	#DIV/0!	#DIV/0!
1	0	0	AATAAATAAAA	5717	0.0	#DIV/0!	0.0
0	0	1	AATAAATTAGC	5718	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATACAAATA	5719	#DIV/0!	0.0	#DIV/0!
1	0	0	AATACAAGAT	5720	0.0	#DIV/0!	0.0
0	1	0	AATACAAGGT	5721	#DIV/0!	0.0	#DIV/0!
0	0	1	AATACCATAT	5722	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATACGTTA	5723	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATACTATCA	5724	0.0	#DIV/0!	0.0
0	0	1	AATAGAAAGT	5725	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATAGACCGAG	5726	0.0	#DIV/0!	0.0
0	1	0	AATAGAGATA	5727	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAGCCGGC	5728	0.0	#DIV/0!	0.0
0	1	0	AATAGCCTTG	5729	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAGCTTT	5730	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAGTCAAC	5731	0.0	#DIV/0!	0.0
0	0	1	AATAGTGAAG	5732	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATATAAATT	5733	0.0	#DIV/0!	0.0
0	0	1	AATATCAAGC	5734	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATATCCATA	5735	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATATGCTGT	5736	0.0	#DIV/0!	0.0
0	0	1	AATATTACAT	5737	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATATTCAA	5738	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AATATTGGG	5739	#DIV/0!	0.0	#DIV/0!
0	0	0	AATATTCTAT	5740	#DIV/0!	0.0	#DIV/0!
1	0	0	AATATTCTCA	5741	0.0	#DIV/0!	0.0
0	0	1	AATCAAAAC	5742	#DIV/0!	0.0	#DIV/0!
0	0	0	AATCAAATT	5743	#DIV/0!	0.0	#DIV/0!
1	0	0	AATCAAACAC	5744	0.0	#DIV/0!	0.0
0	0	1	AATCAAAGCAT	5745	#DIV/0!	0.0	#DIV/0!
0	1	0	AATCACCCCT	5746	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCACTGGT	5747	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCAGTTT	5748	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCATAACA	5749	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCATACGA	5750	#DIV/0!	0.0	#DIV/0!
0	1	0	AATCATCCGT	5751	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCCAATAAT	5752	#DIV/0!	0.0	#DIV/0!
1	0	0	AATCCAACC	5753	0.0	#DIV/0!	0.0
1	1	0	AATCAAACG	5754	0.0	#DIV/0!	0.0
0	0	1	AATCAAATTG	5755	#DIV/0!	0.0	#DIV/0!
-1	0	0	AATCAGGGT	5756	0.0	#DIV/0!	0.0
1	0	0	AATCAGTCG	5757	0.0	#DIV/0!	0.0
0	0	1	AATCAGTGA	5758	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCAGTGG	5759	#DIV/0!	0.0	#DIV/0!
-1	0	0	AATCAGTTA	5760	0.0	#DIV/0!	0.0
0	0	1	AATCGAAA	5761	#DIV/0!	0.0	#DIV/0!
1	0	0	AATCTTGCTT	5762	0.0	#DIV/0!	0.0
1	1	0	AATCTGTCT	5763	0.0	#DIV/0!	0.0
1	1	0	AATGAAATA	5764	0.0	#DIV/0!	0.0
0	0	1	AATGATGAC	5765	#DIV/0!	0.0	#DIV/0!
0	-1	0	AATGTCACA	5766	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AATCTAAATA	5767	#DIV/0!	0.0
1	0	0	AATCTAGCCA	5768	0.0	#DIV/0!
0	1	0	AATCTATACG	5769	#DIV/0!	0.0
0	0	1	AATCTATTAA	5770	#DIV/0!	#DIV/0!
1	1	0	AATCTCCAGT	5771	0.0	#DIV/0!
0	0	0	AATCTCTTC	5772	#DIV/0!	#DIV/0!
0	0	1	AATCTGGATC	5773	#DIV/0!	#DIV/0!
-1	1	0	AATCTTATGG	5774	0.0	#DIV/0!
0	1	0	AATCTTCGAC	5775	#DIV/0!	0.0
0	0	1	AATCTTGATC	5776	#DIV/0!	0.0
1	1	0	AATCTTCAC	5777	0.0	#DIV/0!
0	0	1	AATGAAATGC	5778	#DIV/0!	0.0
0	0	0	AATGAACCA	5779	#DIV/0!	#DIV/0!
0	0	1	AATGAAGAGC	5780	#DIV/0!	#DIV/0!
0	1	0	AATGAAGTGG	5781	#DIV/0!	0.0
0	0	1	AATGAATTGC	5782	#DIV/0!	#DIV/0!
0	0	0	AATGAATTG	5783	#DIV/0!	#DIV/0!
1	1	0	AATGACGAAT	5784	0.0	#DIV/0!
1	1	0	AATGACGACA	5785	0.0	0.0
1	1	0	AATGACGGCAA	5786	0.0	#DIV/0!
1	1	0	AATGACGGCTC	5787	0.0	#DIV/0!
0	0	1	AATGACTATC	5788	#DIV/0!	0.0
1	1	0	AATGACTGTA	5789	0.0	#DIV/0!
0	0	1	AATGAGGCACG	5790	#DIV/0!	0.0
0	0	1	AATGAGTAAG	5791	#DIV/0!	#DIV/0!
0	0	1	AATGATACCG	5792	#DIV/0!	#DIV/0!
0	1	0	AATGATCAAT	5793	#DIV/0!	0.0
-1	0	0	AATGATTCCAT	5794	0.0	#DIV/0!

Table 5, cont.

0	0	1	AATGATTTTT	5795	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATGCATTT	5796	0.0	#DIV/0!	0.0
-1	0	0	AATGCCGAAG	5797	0.0	#DIV/0!	0.0
0	0	1	AATGGGGCAA	5798	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATGGAAAAC	5799	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATGGACAGC	5800	0.0	#DIV/0!	0.0
0	0	1	AATGGAGAAC	5801	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGGCCCTTG	5802	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGGCGGCAC	5803	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGGCTAGC	5804	0.0	#DIV/0!	0.0
0	0	1	AATGGGAAGC	5805	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGGTAATT	5806	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGTAGATC	5807	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGTAGGCC	5808	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGTCACACA	5809	0.0	#DIV/0!	0.0
0	0	1	AATGTCACAT	5810	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGTCGTGAT	5811	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGTAAAT	5812	0.0	#DIV/0!	0.0
-1	0	0	AATGTGCTAA	5813	0.0	#DIV/0!	0.0
0	0	1	AATGTTACTC	5814	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGTTCTGA	5815	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGTTGTCA	5816	0.0	#DIV/0!	0.0
0	1	0	AATTAAAGTGG	5817	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTACATTG	5818	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATTACTAAG	5819	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTACTTCG	5820	0.0	#DIV/0!	0.0
0	1	0	AATTAGATAG	5821	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTATGTGA	5822	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AATTATAAA	5823	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTATAAT	5824	0.0	0.0	#DIV/0!
0	1	0	AATTATTGAT	5825	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTATTAG	5826	0.0	0.0	#DIV/0!
1	1	0	AATTATTTT	5827	0.0	0.0	#DIV/0!
1	0	0	AAITCAACAA	5828	0.0	0.0	#DIV/0!
0	0	1	AAITCAACCT	5829	#DIV/0!	0.0	#DIV/0!
0	0	1	AAITCAAGCA	5830	#DIV/0!	0.0	#DIV/0!
1	1	0	AAITCCAGTT	5831	0.0	0.0	#DIV/0!
1	1	0	AAITCCAAA	5832	0.0	0.0	#DIV/0!
0	1	0	AAITCCTGAG	5833	#DIV/0!	0.0	#DIV/0!
0	1	0	AAITCGAGCT	5834	#DIV/0!	0.0	#DIV/0!
0	0	1	AAITCTTCGT	5835	#DIV/0!	0.0	#DIV/0!
0	0	1	AAITCTTGCA	5836	#DIV/0!	0.0	#DIV/0!
1	1	0	AAITGAAATT	5837	0.0	0.0	#DIV/0!
0	1	0	AATTGAGATC	5838	#DIV/0!	0.0	#DIV/0!
1	1	0	AATTGAGGCA	5839	0.0	0.0	#DIV/0!
0	0	1	AATTGCAATA	5840	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTGGCAG	5841	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTGGTCAC	5842	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTGTACTT	5843	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTGTCGAT	5844	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTGTTAAG	5845	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTACTGA	5846	0.0	0.0	#DIV/0!
0	1	0	AATTAGTTC	5847	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTATTGA	5848	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTCAAGAA	5849	0.0	0.0	#DIV/0!
0	1	0	AATTCAAGCA	5850	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AATTTCGAAT	5851	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATTTCGTGA	5852	0.0	#DIV/0!	0.0
0	0	1	AATTTCATC	5853	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATTGGATC	5854	0.0	#DIV/0!	0.0
0	0	1	AATTGGCAT	5855	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATTGTCATCA	5856	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTTCATCCAT	5857	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTTCCTCC	5858	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTGGCCC	5859	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTTTAAA	5860	0.0	#DIV/0!	0.0
0	0	1	AATTTTAAC	5861	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATTTTAGT	5862	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTTTCCA	5863	0.0	#DIV/0!	0.0
0	0	1	ACAAAAAGAG	5864	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAAAAATTG	5865	0.0	#DIV/0!	0.0
0	0	1	ACAAAAACCA	5866	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACAAAAGATT	5867	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAAAATCAT	5868	0.0	#DIV/0!	0.0
0	1	0	ACAAAATTCC	5869	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAAAATTCT	5870	0.0	#DIV/0!	0.0
0	1	0	ACAAACTTTT	5871	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAAAGACCT	5872	0.0	#DIV/0!	0.0
0	0	1	ACAAACAAGGT	5873	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAAACACTCA	5874	0.0	#DIV/0!	0.0
0	1	0	ACAAACCCCA	5875	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAACTGGGT	5876	0.0	#DIV/0!	0.0
0	0	1	ACAAAGACCTT	5877	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACAAAGAGATC	5878	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	ACAAGATTG	5879	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAAGATTT	5880	0.0	#DIV/0!	0.0	#DIV/0!
0	-1	0	ACAAGCTATA	5881	#DIV/0!	0.0	#DIV/0!	0.0
0	0	1	ACAAGTACCA	5882	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACAAGTGTT	5883	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	ACAAGTTGA	5884	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	ACAATAAACAA	5885	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	-1	0	ACAATAACGC	5886	0.0	#DIV/0!	0.0	#DIV/0!
-1	1	0	ACAATAGACC	5887	0.0	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACAATATCTG	5888	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	ACAATCGATC	5889	#DIV/0!	0.0	#DIV/0!	0.0
1	1	0	ACAATGACCG	5890	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	ACAATGCCCT	5891	#DIV/0!	0.0	#DIV/0!	0.0
1	1	0	ACAATGTGA	5892	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	ACAATTAAG	5893	#DIV/0!	0.0	#DIV/0!	0.0
0	0	1	ACAATTCTTT	5894	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	-1	0	ACACAAACTT	5895	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	ACACACAAA	5896	#DIV/0!	0.0	#DIV/0!	#DIV/0!
-1	1	0	ACACACCAGC	5897	0.0	#DIV/0!	0.0	#DIV/0!
1	1	0	ACACAACAA	5898	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	ACACCAAACG	5899	#DIV/0!	0.0	#DIV/0!	0.0
0	0	1	ACACCCAGCAA	5900	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	-1	0	ACACCCAGCCT	5901	#DIV/0!	0.0	#DIV/0!	#DIV/0!
-1	0	0	ACACCAATTGA	5902	0.0	#DIV/0!	0.0	#DIV/0!
1	1	0	ACACCATTTG	5903	0.0	#DIV/0!	0.0	#DIV/0!
1	1	0	ACACCCCTCCA	5904	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	ACACGATGCC	5905	#DIV/0!	0.0	#DIV/0!	0.0
0	0	1	ACACGGCTTGT	5906	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ACACGTTCGA	5907	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACACTAAATC	5908	0.0	#DIV/0!	0.0
-1	0	0	ACACTATCCC	5909	0.0	#DIV/0!	0.0
-1	0	0	ACACTCACCA	5910	0.0	#DIV/0!	0.0
-1	0	0	ACACTCCATC	5911	0.0	#DIV/0!	0.0
0	1	0	ACACTGGCGT	5912	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACACTTATAA	5913	#DIV/0!	0.0	#DIV/0!
0	0	1	ACACTTGCCT	5914	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACACTTTGT	5915	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ACACTTTTT	5916	0.0	#DIV/0!	0.0
0	0	1	ACAGAAAGCC	5917	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACAGAACGGA	5918	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ACAGAACATTAA	5919	0.0	#DIV/0!	0.0
-1	0	0	ACAGACCAGG	5920	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ACAGAGAAA	5921	#DIV/0!	0.0	#DIV/0!
0	0	0	ACAGCAATT	5922	#DIV/0!	0.0	#DIV/0!
0	0	0	ACAGCCCTCT	5923	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAGCTACCA	5924	0.0	#DIV/0!	0.0
0	0	1	ACAGGGATGTC	5925	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACAGGGACCT	5926	#DIV/0!	0.0	#DIV/0!
0	0	1	ACAGGGCTGA	5927	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAGGGGGCG	5928	0.0	#DIV/0!	0.0
0	1	0	ACAGGTTACA	5929	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAGTGCGAG	5930	0.0	#DIV/0!	0.0
1	0	0	ACAGTTGGGA	5931	0.0	#DIV/0!	0.0
1	0	0	ACATACTTTA	5932	0.0	#DIV/0!	0.0
0	0	1	ACATATGAAT	5933	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATCAAAAA	5934	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	ACATCAAGCC	5935	0.0	#DIV/0!	0.0
1	0	0	ACATCAGAA	5936	0.0	#DIV/0!	0.0
0	0	1	ACATCATCGA	5937	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATCATCTA	5938	#DIV/0!	0.0	#DIV/0!
0	0	1	ACATCATTTG	5939	#DIV/0!	0.0	#DIV/0!
0	0	1	ACATCCACCA	5940	#DIV/0!	0.0	#DIV/0!
1	1	0	ACATCCCGGA	5941	0.0	#DIV/0!	0.0
0	0	1	ACATCCTCAA	5942	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATGCCCTG	5943	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATCGTTTG	5944	#DIV/0!	0.0	#DIV/0!
0	0	1	ACATCTCGTA	5945	#DIV/0!	0.0	#DIV/0!
1	1	0	ACATCTGGTC	5946	0.0	#DIV/0!	0.0
0	0	1	ACATTATTGG	5947	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATTCACCA	5948	#DIV/0!	0.0	#DIV/0!
0	0	1	ACATTCTTTC	5949	#DIV/0!	0.0	#DIV/0!
0	0	0	ACATTGACGA	5950	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATTGTGTA	5951	#DIV/0!	0.0	#DIV/0!
-1	1	0	ACATTCCAG	5952	0.0	#DIV/0!	0.0
1	1	0	ACATTCTCA	5953	0.0	#DIV/0!	0.0
0	0	1	ACATTTTAT	5954	#DIV/0!	0.0	#DIV/0!
0	0	1	ACAAAAATGC	5955	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACAAAAATG	5956	#DIV/0!	0.0	#DIV/0!
0	0	1	ACAAAAGAAA	5957	#DIV/0!	0.0	#DIV/0!
1	1	0	ACAAATTTGA	5958	0.0	#DIV/0!	0.0
1	1	0	ACCAACACAT	5959	0.0	#DIV/0!	0.0
1	1	0	ACCAAGATCT	5960	0.0	#DIV/0!	0.0
0	0	1	ACCAAGCAA	5961	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCAAGGCTA	5962	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

Table 5, cont.

0	0	1	ACCCCACTCA	5991	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCCCGAGAAG	5992	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACCCCGTCAG	5993	0.0	#DIV/0!	0.0
1	1	0	ACCGATGCT	5994	0.0	#DIV/0!	0.0
1	1	0	ACCTACTGC	5995	0.0	#DIV/0!	0.0
0	0	-1	ACCTATGTA	5996	#DIV/0!	0.0	#DIV/0!
1	1	0	ACCGAACTTA	5997	0.0	#DIV/0!	0.0
1	1	0	ACCGACGGCTC	5998	0.0	#DIV/0!	0.0
0	0	1	ACCGAGAGAT	5999	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCGAGTCGG	6000	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCGATACAC	6001	#DIV/0!	0.0	#DIV/0!
0	0	0	ACCGATGGTA	6002	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACCGCAAGAC	6003	0.0	#DIV/0!	0.0
0	0	0	ACCGCAATCA	6004	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCGCCGGCTC	6005	#DIV/0!	0.0	#DIV/0!
0	0	0	ACCGCTAGTGTG	6006	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACCGCTCTGG	6007	0.0	#DIV/0!	0.0
0	0	1	ACCGCTTTCT	6008	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ACCGGGGGGCT	6009	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACGGGTGCC	6010	0.0	#DIV/0!	0.0
1	1	0	ACCGTACTTT	6011	0.0	#DIV/0!	0.0
1	1	0	ACCGTAGCGT	6012	0.0	#DIV/0!	0.0
1	1	0	ACCGTCAAAAC	6013	0.0	#DIV/0!	0.0
1	1	0	ACCGTCAAGT	6014	0.0	#DIV/0!	0.0
1	1	0	ACCGTCCCTTC	6015	0.0	#DIV/0!	0.0
0	0	1	ACCGTCGAAG	6016	#DIV/0!	0.0	#DIV/0!
0	0	0	ACCGTCGATT	6017	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACCGTGGGGT	6018	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	ACCGTTGGTG	6019	0.0	#DIV/0!	0.0
0	0	1	ACCTAAAGAA	6020	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCTACCTTC	6021	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACCTAGCAT	6022	#DIV/0!	0.0	#DIV/0!
1	0	0	ACCTATAAAA	6023	0.0	#DIV/0!	#DIV/0!
1	1	0	ACCTATTCA	6024	0.0	#DIV/0!	0.0
-1	0	0	ACCTCAAAAA	6025	0.0	#DIV/0!	0.0
0	1	0	ACCTCCAAGC	6026	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCTCCGTTT	6027	#DIV/0!	0.0	#DIV/0!
0	1	0	ACCTCGGCTT	6028	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ACCTGAATGG	6029	0.0	0.0	#DIV/0!
0	1	0	ACCTGGATAA	6030	#DIV/0!	#DIV/0!	0.0
0	0	1	ACCTGGCT	6031	#DIV/0!	0.0	#DIV/0!
0	0	-1	ACCTGGGGT	6032	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	ACCTTAAAAA	6033	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ACCTTACATT	6034	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ACCTTACGGG	6035	0.0	#DIV/0!	#DIV/0!
0	1	0	ACCTTCAGCA	6036	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCTTCATTG	6037	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACCTTGGAAA	6038	0.0	#DIV/0!	#DIV/0!
0	0	1	ACCTTGAAG	6039	#DIV/0!	#DIV/0!	0.0
0	1	0	ACCTGGGGT	6040	#DIV/0!	0.0	#DIV/0!
1	0	0	ACCTGGTCA	6041	0.0	#DIV/0!	#DIV/0!
0	0	0	ACCTTTGGCAC	6042	#DIV/0!	#DIV/0!	0.0
0	0	1	ACCTTTTCAT	6043	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ACGAAAATT	6044	0.0	#DIV/0!	#DIV/0!
1	0	0	ACGAAAGTGG	6045	0.0	#DIV/0!	0.0
1	0	0	ACGAAAGAAAT	6046	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ACGAAGGGCCT	6047	#DIV/0!	0.0		#DIV/0!
0	0	1	ACGAAGGCTAG	6048	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	0	0	ACGAAGGCTCA	6049	0.0	0.0	#DIV/0!	0.0
-1	0	0	ACGAAGGCTGG	6050	0.0	0.0	#DIV/0!	0.0
0	0	0	ACGAAGGGATT	6051	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	0	ACGAAGGTAG	6052	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	0	0	ACGAAGTTGT	6053	0.0	0.0	#DIV/0!	#DIV/0!
0	0	-1	ACGAATCACA	6054	#DIV/0!	0.0	0.0	#DIV/0!
-1	0	0	ACGAATGAGG	6055	0.0	0.0	#DIV/0!	#DIV/0!
0	0	0	ACGAATGCIG	6056	#DIV/0!	0.0	#DIV/0!	0.0
0	0	1	ACGAATTATA	6057	#DIV/0!	0.0	0.0	#DIV/0!
0	0	0	ACGAATTGTT	6058	#DIV/0!	0.0	#DIV/0!	#DIV/0!
-1	0	0	ACGCCAACTC	6059	0.0	0.0	#DIV/0!	#DIV/0!
-1	1	0	ACGACAGTAA	6060	0.0	0.0	#DIV/0!	0.0
0	0	1	ACGACGATGA	6061	#DIV/0!	0.0	0.0	#DIV/0!
-1	1	0	ACGAGGCTCCG	6062	0.0	0.0	#DIV/0!	0.0
0	0	-1	ACGGGGAAA	6063	#DIV/0!	0.0	0.0	#DIV/0!
1	1	0	ACGAGGATAG	6064	0.0	0.0	#DIV/0!	0.0
0	0	1	ACGATAAAC	6065	#DIV/0!	0.0	0.0	#DIV/0!
1	1	0	ACGATAATCGT	6066	0.0	0.0	#DIV/0!	0.0
0	0	0	ACGATGAAAG	6067	#DIV/0!	0.0	0.0	#DIV/0!
-1	0	0	ACGATGAAGG	6068	0.0	0.0	#DIV/0!	0.0
0	0	1	ACGATGCTT	6069	#DIV/0!	0.0	0.0	#DIV/0!
0	0	0	ACGATTGCC	6070	#DIV/0!	0.0	0.0	#DIV/0!
0	0	0	ACGCAATGGA	6071	#DIV/0!	0.0	0.0	#DIV/0!
0	0	1	ACGCAGATT	6072	#DIV/0!	0.0	0.0	#DIV/0!
0	0	1	ACGCATATTA	6073	#DIV/0!	0.0	0.0	#DIV/0!
0	1	0	ACGCATTGTC	6074	#DIV/0!	0.0	0.0	#DIV/0!

Table 5, cont.

0	1	0	ACGCCAGCTC	6075	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGCCGCTCA	6076	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACGCCTGTGT	6077	0.0	#DIV/0!	0.0
0	1	0	ACGGAAATCT	6078	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGGCTCTTT	6079	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACGGAACAAA	6080	0.0	#DIV/0!	0.0
-1	0	0	ACGGAAAGACT	6081	0.0	#DIV/0!	0.0
-1	0	0	ACGGAAAGCCC	6082	0.0	#DIV/0!	0.0
0	0	1	ACGGAAACATAG	6083	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGGAGTTGA	6084	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGGATATTA	6085	0.0	#DIV/0!	0.0
0	-1	0	ACGGCAAACT	6086	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGGCCAGAGA	6087	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGGCAGCAA	6088	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGGCCAAGT	6089	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACGGGCCCTAC	6090	0.0	#DIV/0!	0.0
-1	0	0	ACGGCTCTCA	6091	0.0	#DIV/0!	0.0
0	0	1	ACGGGTCGCC	6092	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGGGTATG	6093	0.0	#DIV/0!	0.0
0	1	0	ACGGIAATCA	6094	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGGTATATT	6095	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACGGTCAATA	6096	0.0	#DIV/0!	0.0
0	0	1	ACGTACGTTT	6097	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTATATAC	6098	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTATTTCG	6099	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTCTCTTT	6100	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGTGGCAGC	6101	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTCTCATCA	6102	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ACGTCTTCA	6103	0.0	#DIV/0!		0.0
0	1	0	ACGTTGACTTG	6104	0.0	#DIV/0!		#DIV/0!
0	0	1	ACGTTGTGTA	6105	0.0	#DIV/0!		#DIV/0!
1	0	0	ACGTTGTTAA	6106	0.0	#DIV/0!		0.0
0	0	-1	ACGTTATCAC	6107	0.0	#DIV/0!		#DIV/0!
0	0	0	ACGTTCCGGT	6108	0.0	#DIV/0!		#DIV/0!
1	0	0	ACGTTCCCTCA	6109	0.0	#DIV/0!		0.0
0	0	1	ACGTTCCCTT	6110	0.0	#DIV/0!		#DIV/0!
0	0	-1	ACGTTCTTGT	6111	0.0	#DIV/0!		#DIV/0!
0	0	0	ACGTTCTTTC	6112	0.0	#DIV/0!		#DIV/0!
1	0	0	ACTAAAACTA	6113	0.0	#DIV/0!		0.0
0	0	0	ACTAAACCCC	6114	0.0	#DIV/0!		#DIV/0!
0	0	1	ACTAAACTGG	6115	0.0	#DIV/0!		#DIV/0!
0	0	-1	ACTAAATCAA	6116	0.0	#DIV/0!		#DIV/0!
-1	0	0	ACTAAATCAC	6117	0.0	#DIV/0!		0.0
0	0	0	ACTAAATGAC	6118	0.0	#DIV/0!		#DIV/0!
1	0	0	ACTAAACTTG	6119	0.0	#DIV/0!		0.0
0	0	1	ACTAAGATGA	6120	0.0	#DIV/0!		#DIV/0!
0	0	0	ACTAAGGAGA	6121	0.0	#DIV/0!		#DIV/0!
0	0	1	ACTAAATTCAA	6122	0.0	#DIV/0!		0.0
-1	0	0	ACTAACACAG	6123	0.0	#DIV/0!		0.0
0	0	0	ACTAACATT	6124	0.0	#DIV/0!		#DIV/0!
1	0	0	ACTACTGAA	6125	0.0	#DIV/0!		0.0
0	0	1	ACTACTGAA	6126	0.0	#DIV/0!		#DIV/0!
1	0	0	ACTACTGGTA	6127	0.0	#DIV/0!		0.0
0	0	1	ACTAGAAATT	6128	0.0	#DIV/0!		#DIV/0!
1	0	0	ACTAGAATCT	6129	0.0	#DIV/0!		0.0
-1	0	0	ACTAGAATTG	6130	0.0	#DIV/0!		0.0

Table 5, cont.

1	0	0	ACTAGGATT	6131	0.0	#DIV/0!	0.0
0	1	0	ACTAGTAGTA	6132	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTATCGAGG	6133	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTATGAATA	6134	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTATTATGA	6135	0.0	#DIV/0!	#DIV/0!
0	-1	0	ACTATTATTGG	6136	0.0	#DIV/0!	#DIV/0!
1	0	0	ACTCAAACT	6137	0.0	#DIV/0!	0.0
0	0	1	ACTCACTTCA	6138	0.0	#DIV/0!	#DIV/0!
1	0	0	ACTCAGAAAAG	6139	0.0	#DIV/0!	0.0
0	1	0	ACTCAGATTTC	6140	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTCAGTTTC	6141	0.0	#DIV/0!	#DIV/0!
1	0	0	ACTCCATTAA	6142	0.0	#DIV/0!	0.0
0	0	1	ACTCCATTGA	6143	0.0	#DIV/0!	#DIV/0!
0	0	0	ACTCCTACAT	6144	0.0	#DIV/0!	0.0
0	0	1	ACTCGAGTTG	6145	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTCGATTAC	6146	0.0	#DIV/0!	0.0
0	0	0	ACTCGCATT	6147	0.0	#DIV/0!	#DIV/0!
0	0	0	ACTCGCCCC	6148	0.0	#DIV/0!	0.0
0	0	1	ACTCTAACCT	6149	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTCTACTGG	6150	0.0	#DIV/0!	#DIV/0!
1	1	0	ACTCTATCGG	6151	0.0	#DIV/0!	0.0
0	0	1	ACTCTCATTA	6152	0.0	#DIV/0!	#DIV/0!
1	-1	0	ACTCTCTTGA	6153	0.0	#DIV/0!	0.0
0	0	1	ACTCTTGTAA	6154	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTCTTTCAT	6155	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTGAAACGAA	6156	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTGAAACGTA	6157	0.0	#DIV/0!	#DIV/0!
1	0	0	ACTGACTAAG	6158	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ACTGAGTTT	6159	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTGATAGAT	6160	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTGATATA	6161	#DIV/0!	0.0	#DIV/0!
1	1	0	ACTGATGATG	6162	0.0	#DIV/0!	0.0
0	0	1	ACTGACIAAA	6163	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTGCAGACA	6164	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACTGCATTAG	6165	0.0	#DIV/0!	0.0
1	1	0	ACTGCATTG	6166	0.0	#DIV/0!	0.0
0	0	0	ACTGCCTAAT	6167	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	ACTGCCCTAC	6168	0.0	#DIV/0!	0.0
0	0	0	ACTGCTAGAC	6169	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ACTGCTATTIC	6170	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ACTGCTGCC	6171	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTGCTTCAA	6172	#DIV/0!	0.0	#DIV/0!
-1	0	0	ACTGGAAACC	6173	0.0	#DIV/0!	0.0
0	0	0	ACTGGCTAAA	6174	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ACTGGGGCAG	6175	0.0	#DIV/0!	0.0
0	0	1	ACTGGTATTG	6176	#DIV/0!	0.0	#DIV/0!
0	0	0	ACTGGTCAT	6177	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ACTGGTTTG	6178	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACTGTACGTT	6179	0.0	#DIV/0!	0.0
0	0	0	ACTGTACTCT	6180	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACTGTCCATT	6181	0.0	#DIV/0!	0.0
0	0	-1	ACTGTGCGTG	6182	#DIV/0!	0.0	#DIV/0!
-1	1	0	ACTGTGAAC	6183	0.0	#DIV/0!	0.0
0	0	1	ACTGTGAAAT	6184	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ACTGTGCTGA	6185	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACTGTGGGT	6186	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	ACTGTTTCAG	6187	0.0	#DIV/0!	0.0
0	1	0	ACTTAACAAT	6188	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTACAAA	6189	0.0	#DIV/0!	#DIV/0!
-1	0	0	ACTTACAACC	6190	0.0	#DIV/0!	0.0
0	0	1	ACTTACCCCT	6191	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTTACTCGT	6192	0.0	#DIV/0!	#DIV/0!
-1	1	0	ACTTAGTATT	6193	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTAGTTG	6194	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTTATGATT	6195	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTATTTTT	6196	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTCAAATG	6197	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTCAACTA	6198	0.0	#DIV/0!	#DIV/0!
-1	0	0	ACTTCAATTG	6199	0.0	#DIV/0!	0.0
0	0	1	ACTTCACGTT	6200	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTCAGAAA	6201	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTTCAGCG	6202	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTCAGCGT	6203	0.0	#DIV/0!	#DIV/0!
1	0	0	ACTTCATTAC	6204	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTTCCACGT	6205	0.0	#DIV/0!	0.0
1	0	0	ACTTCCCAGA	6206	0.0	#DIV/0!	0.0
0	0	1	ACTTCGGGTG	6207	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTTCGGTGC	6208	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTCGGAC	6209	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTCGTGAG	6210	0.0	#DIV/0!	#DIV/0!
-1	0	0	ACTTCGTGGT	6211	0.0	#DIV/0!	#DIV/0!
0	0	1	ACTTGAACGT	6212	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTTGACAAG	6213	0.0	#DIV/0!	#DIV/0!
0	1	0	ACTTGACTGT	6214	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	ACTTGCATA	6215	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTGGAAA	6216	0.0	#DIV/0!	0.0
0	1	0	ACTTGGATCT	6217	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTGTGAA	6218	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTGTGAT	6219	0.0	#DIV/0!	0.0
1	0	0	ACTTTAAAGA	6220	0.0	#DIV/0!	0.0
0	1	0	ACTTTAAATC	6221	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTTAATT	6222	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTTTATTC	6223	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTTTCTTCG	6224	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTTGATTG	6225	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTTGGCTA	6226	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTTTAATC	6227	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTTAGAA	6228	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTTTCAGT	6229	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTTTTGAA	6230	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTTTGG	6231	0.0	#DIV/0!	0.0
0	1	0	ACTTTTTTA	6232	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAAAAAAG	6233	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAAAAAAACC	6234	0.0	#DIV/0!	0.0
0	0	0	AGAAAAAAAGA	6235	0.0	#DIV/0!	0.0
0	0	0	AGAAAAAAATG	6236	0.0	#DIV/0!	0.0
0	0	0	AGAAAAAACTG	6237	0.0	#DIV/0!	0.0
1	0	0	AGAAAAAAATG	6238	0.0	#DIV/0!	0.0
1	0	0	AGAAAAATGT	6239	0.0	#DIV/0!	0.0
0	0	1	AGAAAACGAG	6240	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAAAAGATG	6241	0.0	#DIV/0!	0.0
1	0	0	AGAAAAGTGT	6242	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AGAAACTTAA	6243	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAACTTCT	6244	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAAGTAAG	6245	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAATGCTG	6246	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAATGTGT	6247	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAACAACT	6248	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAACATCCA	6249	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAACCTCAC	6250	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAACCTTTC	6251	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAACTGGAC	6252	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAACTTGAA	6253	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGAACTTGAT	6254	0.0	#DIV/0!	0.0
0	0	1	AGAAGAACGG	6255	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGAAGG	6256	#DIV/0!	0.0	#DIV/0!
-1	1	0	AGAAGACAAG	6257	0.0	#DIV/0!	0.0
1	1	0	AGAAGAGATA	6258	0.0	#DIV/0!	0.0
1	1	0	AGAAGAGCAC	6259	0.0	#DIV/0!	0.0
1	1	0	AGAAGAGCC	6260	0.0	#DIV/0!	0.0
0	1	0	AGAAGAGGTG	6261	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAGATGGA	6262	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGCACAA	6263	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGCACCC	6264	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGAAGCACTG	6265	0.0	#DIV/0!	0.0
1	0	1	AGAAGCCAGA	6266	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGCCAGT	6267	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAGCCGTT	6268	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAGGACCC	6269	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAGGCATA	6270	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AGAAGGGCTCC	6271	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGGGAA	6272	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAACGTCAA	6273	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAGTGGGT	6274	#DIV/0!	0.0	#DIV/0!
0	1	0	AGAAAGTGTAT	6275	#DIV/0!	0.0	#DIV/0!
-1	0	0	AGAATAATGG	6276	0.0	#DIV/0!	0.0
1	0	0	AGAATACATT	6277	0.0	#DIV/0!	0.0
0	0	1	AGAATACCGT	6278	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGAATATGGT	6279	0.0	#DIV/0!	0.0
0	0	1	AGAACATCAGT	6280	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAAATTAGTA	6281	0.0	#DIV/0!	0.0
1	1	0	AGAAATTCAAA	6282	0.0	#DIV/0!	0.0
1	0	0	AGAAATTCAA	6283	0.0	#DIV/0!	0.0
1	0	0	AGAAATTCTATA	6284	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAATTGCTC	6285	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAATTGTTA	6286	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACAAACCC	6287	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGACAAACTT	6288	0.0	#DIV/0!	0.0
1	0	0	AGACAAATTG	6289	0.0	#DIV/0!	0.0
0	1	0	AGACAAACGA	6290	#DIV/0!	0.0	#DIV/0!
0	0	1	AGACAAACCTG	6291	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACAATTGG	6292	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGACACACTG	6293	0.0	#DIV/0!	0.0
0	1	0	AGACACCGAAG	6294	#DIV/0!	0.0	#DIV/0!
-1	0	0	AGACATACTG	6295	0.0	#DIV/0!	0.0
-1	0	0	AGACCAAACCT	6296	0.0	#DIV/0!	0.0
0	0	1	AGACCAAGCC	6297	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCAATCC	6298	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AGACCACTCC	6299	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGACCAGAAA	6300	0.0	#DIV/0!	0.0
0	0	1	AGACCATTC	6301	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCATTG	6302	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCATGG	6303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCATTT	6304	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCCATT	6305	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGACGACATT	6306	#DIV/0!	0.0	#DIV/0!
0	0	1	AGACGATGTC	6307	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACGCCGC	6308	#DIV/0!	0.0	#DIV/0!
0	0	1	AGACTAACTG	6309	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACTACGGA	6310	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACTGCCAC	6311	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACTTAGTA	6312	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAGAACAAAG	6313	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAGAACGTGG	6314	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAGAATACC	6315	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAGAATGCG	6316	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAGACAGAG	6317	0.0	#DIV/0!	0.0
0	0	1	AGAGACGGCA	6318	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAGAGAATG	6319	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAGAGATCG	6320	0.0	#DIV/0!	0.0
0	0	1	AGAGAGCTAC	6321	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAGAGGGAA	6322	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAGATGAAT	6323	0.0	#DIV/0!	0.0
0	1	0	AGAGCAGAAG	6324	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAGCTATAA	6325	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAGCTGGG	6326	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	AGAGGAAC TG	6327	0.0	#DIV/0!	0.0
0	0	1	AGAGGAATA A	6328	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAGGGAGC AC	6329	0.0	#DIV/0!	0.0
0	0	0	AGAGGGATA C	6330	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAGGGCTG GA	6331	0.0	#DIV/0!	0.0
1	0	0	AGAGGGCTT T	6332	0.0	#DIV/0!	0.0
0	0	0	AGAGGGCC TA	6333	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAGGGGTG AT	6334	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAGGTGAT C	6335	0.0	#DIV/0!	0.0
0	1	0	AGAGTAGCAA A	6336	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAGTCTTGA A	6337	0.0	#DIV/0!	0.0
0	0	1	AGAGTGCAAG G	6338	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AGAGTGTICA A	6339	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATAAAACTG G	6340	#DIV/0!	0.0	#DIV/0!
0	0	0	AGATAAATTC C	6341	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATAAAGTT T	6342	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGATAGCAA A	6343	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGATAGCGAA A	6344	#DIV/0!	0.0	#DIV/0!
1	0	0	AGATAGTAAG G	6345	0.0	#DIV/0!	#DIV/0!
1	0	0	AGATCAAAAA A	6346	0.0	#DIV/0!	0.0
0	0	1	AGATCCTCAT T	6347	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGATGAAACT T	6348	#DIV/0!	0.0	#DIV/0!
1	0	0	AGATGAATT T	6349	0.0	#DIV/0!	#DIV/0!
0	0	1	AGATGACTTC C	6350	#DIV/0!	#DIV/0!	0.0
0	0	1	AGATGATCGT G	6351	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATGATGAA A	6352	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATGCAAAA A	6353	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGATGGACTT C	6354	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AGATGGATCC	6355	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATGTGCAA	6356	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATGTTTC	6357	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGATTAAGAA	6358	0.0	#DIV/0!	0.0
0	0	0	AGATTACAAA	6359	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGATTACCGAC	6360	0.0	#DIV/0!	0.0
0	0	0	AGATTCAAAAG	6361	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AGATTCTGCCG	6362	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AGATTGACTC	6363	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATTGCCCA	6364	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGATTGGATG	6365	#DIV/0!	0.0	#DIV/0!
1	0	0	AGATTGTATT	6366	0.0	#DIV/0!	0.0
1	0	0	AGATTGTATG	6367	0.0	#DIV/0!	0.0
-1	0	0	AGATTTTTTT	6368	0.0	#DIV/0!	0.0
0	0	1	AGCAAAAAAGA	6369	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCAAACACTGC	6370	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGCAACCAGC	6371	0.0	#DIV/0!	0.0
-1	0	0	AGCAACGAAG	6372	0.0	#DIV/0!	0.0
0	0	1	AGCAATAAAA	6373	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCAATGGAA	6374	#DIV/0!	0.0	#DIV/0!
1	0	0	AGCAATGTGG	6375	0.0	#DIV/0!	0.0
0	0	1	AGCACCATAG	6376	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCACGGTGT	6377	0.0	#DIV/0!	0.0
0	1	0	AGCACTGAAG	6378	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCACTGGTG	6379	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCAGATTGA	6380	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCAGGCCAA	6381	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCAGCTCAG	6382	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGCAGGAACA	6383	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCAAGTATGC	6384	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGCAAGTGAAAG	6385	0.0	#DIV/0!	0.0
1	1	0	AGCAAGTGGCC	6386	0.0	#DIV/0!	0.0
1	1	0	AGCAAGTTCAC	6387	0.0	#DIV/0!	0.0
0	0	1	AGCAAGTTCT	6388	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATAAAAG	6389	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATAAAGA	6390	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATACAAG	6391	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGCATCAAGC	6392	0.0	#DIV/0!	0.0
0	0	1	AGCATTACCA	6393	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCATTAGAT	6394	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCAATTGAT	6395	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCAATTGCC	6396	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCAATTTTG	6397	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCCAAAAAC	6398	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCCAAACTG	6399	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCCAATTG	6400	#DIV/0!	0.0	#DIV/0!
1	1	0	AGCCAGATCA	6401	0.0	#DIV/0!	0.0
0	1	0	AGCCATCTGT	6402	#DIV/0!	0.0	#DIV/0!
0	1	0	AGCATTAAC	6403	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCATTGCT	6404	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCCATTTTG	6405	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGCCAAACT	6406	0.0	#DIV/0!	0.0
1	1	0	AGCCCAGCTC	6407	0.0	#DIV/0!	0.0
0	0	1	AGCCCGATTC	6408	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGCCCCCTTA	6409	0.0	#DIV/0!	0.0
0	0	1	AGCCGAGATC	6410	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGCCTAAGTT	6411	#DIV/0!	0.0	#DIV/0!
1	0	0	AGCCTATTGA	6412	0.0	#DIV/0!	0.0
0	0	1	AGCGAATGTG	6413	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGACTGAC	6414	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGCCATTG	6415	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGGCCTTAA	6416	0.0	#DIV/0!	0.0
1	0	0	AGCGGATGTT	6417	0.0	#DIV/0!	0.0
0	0	1	AGCGGGATTGA	6418	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGGGTCTT	6419	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGGGTGTCT	6420	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCGGTGTATA	6421	0.0	#DIV/0!	0.0
1	0	0	AGCGTATTAG	6422	0.0	#DIV/0!	0.0
0	0	1	AGCGTCAAAT	6423	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGTGACGT	6424	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCTAAAACA	6425	0.0	#DIV/0!	0.0
0	1	0	AGCTAAACTG	6426	#DIV/0!	0.0	#DIV/0!
0	1	0	AGCTAAATAG	6427	#DIV/0!	0.0	#DIV/0!
-1	0	0	AGCTAACATT	6428	0.0	#DIV/0!	0.0
0	1	0	AGCTAGAACG	6429	#DIV/0!	0.0	#DIV/0!
0	1	0	AGCTAGGGCAT	6430	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCTATAAAC	6431	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCTATGATG	6432	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGCTCCGCCA	6433	0.0	#DIV/0!	0.0
-1	0	0	AGCTCGGGCAT	6434	0.0	#DIV/0!	0.0
0	0	1	AGCTGAAAC	6435	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCTGAACTA	6436	#DIV/0!	0.0	#DIV/0!
1	0	0	AGCTGAGATT	6437	0.0	#DIV/0!	0.0
0	1	0	AGCTGTGCTG	6438	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AGCTTGGCGT	6439	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCTTTAGCC	6440	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCTTTACT	6441	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGAAAAAAC	6442	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGAAAATGT	6443	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	AGGAAACAAG	6444	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGAAAGAAC	6445	0.0	#DIV/0!	0.0
0	0	1	AGGAACGGACT	6446	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGGAACGGTT	6447	0.0	#DIV/0!	0.0
0	0	0	AGGAACCTAA	6448	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGGAAGATGA	6449	0.0	#DIV/0!	0.0
0	0	1	AGGAAGATGT	6450	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AGGAAGTTCT	6451	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGAATCTTG	6452	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGAATGGGT	6453	#DIV/0!	0.0	#DIV/0!
1	1	0	AGGACAAATC	6454	0.0	#DIV/0!	0.0
0	0	1	AGGACACATC	6455	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGACATTGG	6456	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGACCATCC	6457	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGGACCGTCT	6458	0.0	#DIV/0!	0.0
0	0	1	AGGACGGCGG	6459	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGACGTCGA	6460	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGACGTGAA	6461	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AGGACTGTAA	6462	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	AGGAGAACAA	6463	0.0	#DIV/0!	0.0
0	0	1	AGGAGACGGT	6464	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGGAGCCAGA	6465	0.0	#DIV/0!	0.0
0	0	1	AGGAGGGTT	6466	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	0	AGGAGGGATAT	6467	0.0	#DIV/0!	0.0
0	0	1	0	AGGAGGGCTAG	6468	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	0	AGGAGGTCCA	6469	#DIV/0!	0.0	#DIV/0!
0	1	0	0	AGGAGTTCTG	6470	#DIV/0!	0.0	#DIV/0!
0	1	0	0	AGGAGTTTT	6471	#DIV/0!	0.0	#DIV/0!
0	0	1	0	AGGATCTTAG	6472	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	0	AGGATCTTGA	6473	#DIV/0!	0.0	#DIV/0!
0	1	0	0	AGGATGAAGC	6474	#DIV/0!	0.0	#DIV/0!
1	0	0	0	AGGCCAACCA	6475	0.0	#DIV/0!	0.0
0	0	0	1	AGGCCAATGA	6476	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	0	AGGCAGAAACC	6477	#DIV/0!	0.0	#DIV/0!
1	0	0	0	AGGCAGGGCA	6478	0.0	#DIV/0!	0.0
0	0	1	0	AGGCAGTCAG	6479	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	AGCCAACTG	6480	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	AGGCCATTGC	6481	0.0	#DIV/0!	0.0
0	0	0	1	AGGCCATTG	6482	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	AGGCCCTGAAA	6483	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	AGGCTCTGCT	6484	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	AGGCTTGAGA	6485	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	AGGCTTGAGG	6486	0.0	#DIV/0!	0.0
-1	1	0	0	AGGAGACATCG	6487	0.0	#DIV/0!	0.0
0	0	1	0	AGGAGATACCA	6488	#DIV/0!	0.0	#DIV/0!
0	0	0	1	AGGATGCTG	6489	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	AGGGCAGGAA	6490	#DIV/0!	0.0	#DIV/0!
0	0	0	1	AGGGCAGTTT	6491	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	AGGGCCACCT	6492	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	AGGGCCATAA	6493	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	1	AGGGCTGGT	6494	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGGGAAAAG	6495	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGGAAAGA	6496	0.0	#DIV/0!	0.0
-1	1	0	AGGGGCACGT	6497	0.0	#DIV/0!	0.0
0	0	1	AGGGGGAAC	6498	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGTAGAAC	6499	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	AGGGTCATCC	6500	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGGTTATA	6501	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGGTTGAG	6502	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTAACTGC	6503	#DIV/0!	0.0	#DIV/0!
-1	1	0	AGGTACATT	6504	0.0	#DIV/0!	0.0
0	0	1	AGGTAGTTAG	6505	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGTATGATG	6506	#DIV/0!	0.0	#DIV/0!
0	0	0	AGGTAAWCG	6507	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AGGTGAGGAGA	6508	#DIV/0!	0.0	#DIV/0!
0	0	0	AGGTGCCAA	6509	#DIV/0!	0.0	#DIV/0!
0	0	0	AGGTGTAAGA	6510	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGTAAAGAT	6511	0.0	#DIV/0!	#DIV/0!
0	1	0	AGGTATGTG	6512	#DIV/0!	0.0	#DIV/0!
0	-1	0	AGGTATTGTT	6513	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGTGGCCAC	6514	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	AGGTGGTGTG	6515	#DIV/0!	0.0	#DIV/0!
0	0	0	AGTTTCGGT	6516	#DIV/0!	0.0	#DIV/0!
-1	1	0	AGTAAAACG	6517	0.0	#DIV/0!	0.0
0	0	1	AGTAAACCCG	6518	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTAACGATG	6519	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTAATCAG	6520	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGTAATTCTC	6521	0.0	#DIV/0!	0.0
0	0	1	AGTACTACAA	6522	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGTACTAGTT	6523	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTACTGAAAG	6524	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGTAGAGGCCG	6525	0.0	#DIV/0!	0.0
1	1	0	AGTAGCCAAC	6526	0.0	#DIV/0!	0.0
0	1	0	AGTAGGTTAA	6527	#DIV/0!	0.0	#DIV/0!
-1	0	0	AGTATAGTGG	6528	0.0	#DIV/0!	0.0
0	0	1	AGTATATATA	6529	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTATATGCA	6530	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTATCACAC	6531	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTATGATCA	6532	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTATGGGTG	6533	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTATTATCA	6534	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	AGTCAAACTG	6535	0.0	#DIV/0!	0.0
0	0	1	AGTCAACTCT	6536	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTCCAGCTT	6537	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	AGTCCCCTGTT	6538	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTCGGATTA	6539	0.0	#DIV/0!	0.0
0	0	1	AGTCGGCAA	6540	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTCTCTCCTT	6541	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTCGTACTG	6542	#DIV/0!	0.0	#DIV/0!
-1	0	0	AGTCCTCTTC	6543	0.0	#DIV/0!	0.0
0	0	1	AGTCTTCCTT	6544	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTGAAGGTG	6545	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTGAATTTC	6546	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGAGACCA	6547	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGATATGG	6548	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGATCCAT	6549	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGCCTAA	6550	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGTGGGTATA	6551	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTGCTGAAA	6552	0.0	#DIV/0!	0.0
0	0	1	AGTGGCTTTT	6553	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTGGAAAAA	6554	0.0	#DIV/0!	0.0
0	1	0	AGTGGAAAGGA	6555	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTGGACATA	6556	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTGGATAGC	6557	0.0	#DIV/0!	0.0
0	1	0	AGTGGCTCAA	6558	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTGGGCTGA	6559	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTGGGGCGG	6560	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTGGTAGAA	6561	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTGTATTTC	6562	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTGTCAAGT	6563	0.0	#DIV/0!	0.0
0	0	1	AGTGTGCTT	6564	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTGTTATA	6565	0.0	#DIV/0!	0.0
0	1	0	AGTTAAGAGT	6566	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTTACTGTT	6567	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTTATCAA	6568	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTTATCCAA	6569	0.0	#DIV/0!	0.0
0	1	0	AGTTCAATGC	6570	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTTCACACT	6571	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTTCCGGT	6572	0.0	#DIV/0!	0.0
0	0	1	AGTCGAAGA	6573	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTTCGGGAG	6574	0.0	#DIV/0!	0.0
0	1	0	AGTTCCTCCAG	6575	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTTCCTTT	6576	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTTCCTATA	6577	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTTCTTCAC	6578	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	0	AGTTGAAATT	6579	0.0	#DIV/0!	0.0
0	1	0	0	AGTTGAGTTA	6580	0.0	#DIV/0!	#DIV/0!
0	1	0	0	AGTTTACCACT	6581	0.0	#DIV/0!	#DIV/0!
0	0	1	0	AGTTTACCTC	6582	0.0	#DIV/0!	#DIV/0!
1	0	0	0	AGTTTATAAA	6583	0.0	#DIV/0!	0.0
0	1	0	0	AGTTTCCTGA	6584	0.0	#DIV/0!	#DIV/0!
0	1	0	0	AGTTTGATGA	6585	0.0	#DIV/0!	#DIV/0!
1	0	0	0	AGTTGGAGA	6586	0.0	#DIV/0!	0.0
0	0	0	1	AGTTGGCAA	6587	0.0	#DIV/0!	#DIV/0!
0	1	0	0	AGTTTTATTI	6588	0.0	#DIV/0!	#DIV/0!
1	0	0	0	AGTTTCCIT	6589	0.0	#DIV/0!	0.0
1	0	0	0	AGTTTCTGC	6590	0.0	#DIV/0!	0.0
0	1	0	0	AGTTTGCAT	6591	0.0	#DIV/0!	#DIV/0!
0	0	0	1	AGTTTGGTT	6592	0.0	#DIV/0!	#DIV/0!
0	0	1	0	AGTTTTGAG	6593	0.0	#DIV/0!	#DIV/0!
1	0	0	0	ATAAAAAAAG	6594	0.0	#DIV/0!	0.0
0	0	0	1	ATAAAAGGG	6595	0.0	#DIV/0!	#DIV/0!
1	0	0	0	ATAAAAATGA	6596	0.0	#DIV/0!	0.0
1	0	0	0	ATAAAAGAG	6597	0.0	#DIV/0!	0.0
0	1	0	0	ATAAAAGTAA	6598	0.0	#DIV/0!	#DIV/0!
1	0	0	0	ATAAAAGTGT	6599	0.0	#DIV/0!	0.0
0	0	1	0	ATAAAGAAA	6600	0.0	#DIV/0!	#DIV/0!
0	0	0	1	ATAAAGAAAG	6601	0.0	#DIV/0!	#DIV/0!
1	0	0	0	ATAAAGAACG	6602	0.0	#DIV/0!	0.0
0	1	0	0	ATAAAGATTA	6603	0.0	#DIV/0!	#DIV/0!
0	0	1	0	ATAAAGTGT	6604	0.0	#DIV/0!	#DIV/0!
1	0	0	0	ATAAATACCA	6605	0.0	#DIV/0!	0.0
0	1	0	0	ATAAATCATT	6606	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	ATAAATCGCT	6607	0.0	#DIV/0!	0.0
0	1	0	ATAAATCTAT	6608	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAATGATC	6609	#DIV/0!	0.0	#DIV/0!
0	0	0	ATAAATGGAA	6610	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAACAACAG	6611	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAACAGAGA	6612	0.0	#DIV/0!	0.0
-1	1	0	ATAACAGCAA	6613	0.0	#DIV/0!	0.0
-1	1	0	ATAACAGTCA	6614	0.0	#DIV/0!	0.0
-1	1	0	ATAACCAAAA	6615	0.0	#DIV/0!	0.0
0	0	1	ATAACGACAG	6616	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAACGTGAA	6617	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAAGCAGGA	6618	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAAGCCCCAA	6619	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAGGCCAT	6620	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	ATAAGCTATG	6621	0.0	#DIV/0!	0.0
0	1	0	ATAAGTGATT	6622	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAGTGCAC	6623	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATAAGTGTTT	6624	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATAAGTTAAC	6625	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	ATAAGTTGA	6626	0.0	#DIV/0!	0.0
0	0	0	ATAATAACTT	6627	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAATAATT	6628	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAATAATT	6629	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAATAATCGA	6630	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAATCGCCT	6631	0.0	#DIV/0!	0.0
0	1	0	ATAATGAACA	6632	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAATGAACT	6633	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAATGGACT	6634	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ATAATGGCAC	6635	#DIV/0!	#DIV/0!
0	0	1	ATAATGGCGT	6636	#DIV/0!	0.0
0	1	0	ATAATGTACT	6637	#DIV/0!	0.0
0	0	1	ATAATGTGGA	6638	#DIV/0!	#DIV/0!
0	0	1	ATAATGTTGA	6639	#DIV/0!	#DIV/0!
-1	0	0	ATAATTGTC	6640	0.0	#DIV/0!
0	0	1	ATAATTGGGG	6641	#DIV/0!	#DIV/0!
-1	1	0	ATACAAAAAA	6642	0.0	#DIV/0!
1	0	0	ATACAAACTG	6643	0.0	#DIV/0!
0	0	1	ATACAAGGTA	6644	#DIV/0!	0.0
0	0	1	ATACAAGGTG	6645	#DIV/0!	#DIV/0!
0	1	0	ATACAAGTTT	6646	#DIV/0!	0.0
0	1	0	ATACACATAA	6647	#DIV/0!	#DIV/0!
0	-1	0	ATACACTGGT	6648	#DIV/0!	0.0
1	0	0	ATACAGATTA	6649	0.0	#DIV/0!
0	0	1	ATACAGGATT	6650	#DIV/0!	0.0
0	0	1	ATACATAAAA	6651	#DIV/0!	#DIV/0!
0	0	1	ATACATTTAA	6652	#DIV/0!	0.0
0	0	1	ATACATTCT	6653	#DIV/0!	#DIV/0!
0	1	0	ATACCACTCC	6654	#DIV/0!	0.0
1	0	0	ATACCTCTTC	6655	0.0	#DIV/0!
0	0	-1	ATACCTTAG	6656	#DIV/0!	0.0
0	0	1	ATACGATTAC	6657	#DIV/0!	#DIV/0!
0	0	0	ATACGCCGCT	6658	#DIV/0!	#DIV/0!
0	0	1	ATACGGGCC	6659	#DIV/0!	#DIV/0!
0	0	0	ATACGTATT	6660	#DIV/0!	0.0
0	1	0	ATACGTTGT	6661	#DIV/0!	#DIV/0!
0	1	0	ATACTACCAA	6662	#DIV/0!	0.0

Table 5, cont.

0	1	0	ATACTAGATA	6663	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACTCCAAT	6664	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACTGAAAG	6665	#DIV/0!	0.0	#DIV/0!
1	1	0	ATACTGGCTGC	6666	0.0	#DIV/0!	0.0
0	1	0	ATACTGGTGC	6667	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACTTCGTC	6668	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACTTGGCT	6669	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACCTTCTA	6670	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGAAACTG	6671	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAGAAAGAG	6672	0.0	#DIV/0!	0.0
0	0	1	ATAGAAATCC	6673	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGAAAGTTA	6674	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGAATGCA	6675	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGACAGAG	6676	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAGAGACAA	6677	0.0	#DIV/0!	0.0
0	0	1	ATAGAGCCAT	6678	#DIV/0!	0.0	#DIV/0!
1	1	0	ATAGAGCCGG	6679	0.0	#DIV/0!	0.0
0	0	1	ATAGAGTTAA	6680	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGATTAA	6681	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGATTAG	6682	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGCCGGCTC	6683	#DIV/0!	0.0	#DIV/0!
1	1	0	ATAGGAACT	6684	0.0	#DIV/0!	0.0
1	1	0	ATAGCTCCAT	6685	0.0	#DIV/0!	0.0
1	1	0	ATAGGCTACA	6686	0.0	#DIV/0!	0.0
0	0	1	ATAGGCTCGA	6687	#DIV/0!	0.0	#DIV/0!
1	1	0	ATAGGTATCT	6688	0.0	#DIV/0!	0.0
0	0	1	ATAGGTTGA	6689	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATAGTCGTC	6690	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	ATAGTTAAGG	6691	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAGTTCCCA	6692	0.0	#DIV/0!	0.0
0	0	1	ATAGTTGAAA	6693	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAGTTCTA	6694	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ATATAAGTAC	6695	0.0	#DIV/0!	0.0
-1	0	0	ATATACGGACA	6696	0.0	#DIV/0!	0.0
1	1	0	ATATAGCGGC	6697	0.0	#DIV/0!	0.0
0	0	1	ATATAGGCCT	6698	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	ATATAGTGGT	6699	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATATAAGG	6700	#DIV/0!	0.0	#DIV/0!
1	1	0	ATATATAGGT	6701	0.0	#DIV/0!	0.0
0	0	1	ATATATGTCC	6702	#DIV/0!	0.0	#DIV/0!
1	-1	0	ATATAATTCCA	6703	0.0	#DIV/0!	0.0
0	0	1	ATATATTGGT	6704	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCAAGAA	6705	#DIV/0!	0.0	#DIV/0!
1	1	0	ATATCAAGCA	6706	0.0	#DIV/0!	0.0
0	0	1	ATATCACAAAT	6707	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCAGCAG	6708	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCCATTG	6709	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCCGTAT	6710	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATTCGAAA	6711	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCGATGG	6712	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCGTCAG	6713	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCTAGTT	6714	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATATCTCATA	6715	#DIV/0!	0.0	#DIV/0!
1	1	0	ATATCTCTGT	6716	0.0	#DIV/0!	0.0
0	0	1	ATATCTGTTT	6717	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCTTTAA	6718	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	ATATCITGAA	6719	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATGAAGAA	6720	#DIV/0!	0.0	#DIV/0!
1	1	0	ATATGGAGAA	6721	0.0	0.0	#DIV/0!
0	0	0	ATATGGATAA	6722	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATGGATTT	6723	#DIV/0!	0.0	#DIV/0!
-1	0	0	ATATGGGGGG	6724	0.0	0.0	#DIV/0!
-1	1	0	ATATTAAAAAT	6725	0.0	0.0	#DIV/0!
0	0	1	ATATTAACAT	6726	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATTAGCAC	6727	#DIV/0!	0.0	#DIV/0!
1	1	0	ATATTATAAA	6728	0.0	0.0	#DIV/0!
1	1	0	ATATTATTAG	6729	0.0	0.0	#DIV/0!
0	0	0	ATATTCAGAA	6730	#DIV/0!	0.0	#DIV/0!
-1	0	0	ATATTCAGAA	6731	0.0	0.0	#DIV/0!
-1	0	0	ATATTCGATG	6732	0.0	0.0	#DIV/0!
0	0	1	ATATTGACTT	6733	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATTGATAT	6734	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATTGGAAC	6735	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATTTATCG	6736	#DIV/0!	0.0	#DIV/0!
0	0	0	ATATTTGCTA	6737	#DIV/0!	0.0	#DIV/0!
1	1	0	ATATTTTCTG	6738	0.0	0.0	#DIV/0!
1	1	0	ATCAAAAACT	6739	0.0	0.0	#DIV/0!
0	0	1	ATCAAAAGT	6740	#DIV/0!	0.0	#DIV/0!
1	1	0	ATCAAAATTT	6741	0.0	0.0	#DIV/0!
0	0	1	ATCAAACGCT	6742	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCAAAGTGC	6743	#DIV/0!	0.0	#DIV/0!
0	-1	0	ATCAAATATA	6744	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCAAATCCA	6745	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCAAATCTA	6746	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATCAACGGCTA	6747	0.0	#DIV/0!	0.0
0	1	0	ATCAAGGTGC	6748	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCAAGTTAC	6749	0.0	#DIV/0!	#DIV/0!
-1	1	0	ATCAATATGC	6750	0.0	#DIV/0!	0.0
-1	0	0	ATCACCAAAA	6751	0.0	#DIV/0!	0.0
0	0	1	ATCACCCACG	6752	0.0	#DIV/0!	#DIV/0!
-1	1	0	ATCACCTGCC	6753	0.0	#DIV/0!	0.0
0	0	1	ATCACGCCCT	6754	0.0	#DIV/0!	#DIV/0!
0	1	0	ATCACGGCTCC	6755	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCACGGGTG	6756	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCACTCCTG	6757	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCACTGGCG	6758	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCACTGGGA	6759	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCAGAAATA	6760	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCAGGGTGG	6761	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCACTAGTT	6762	0.0	#DIV/0!	#DIV/0!
1	1	0	ATCAGTGTTA	6763	0.0	#DIV/0!	0.0
1	1	0	ATCAGTTCTT	6764	0.0	#DIV/0!	0.0
1	1	0	ATCATTAAGAT	6765	0.0	#DIV/0!	0.0
0	0	1	ATCATCAAAG	6766	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCATTAGA	6767	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCATTTCC	6768	0.0	#DIV/0!	0.0
1	1	0	ATCCAAGGTG	6769	0.0	#DIV/0!	0.0
1	1	0	ATCCAATTAT	6770	0.0	#DIV/0!	0.0
0	0	1	ATCCACTGGT	6771	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCCAGGTGC	6772	0.0	#DIV/0!	#DIV/0!
0	1	0	ATCCATATTA	6773	0.0	#DIV/0!	#DIV/0!
0	0	1	ATCCATCATT	6774	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

Table 5, cont.

0	1	0	ATGCCCACTC	6803	#DIV/0!	0.0
0	0	1	ATGGCCGCCA	6804	#DIV/0!	#DIV/0!
0	0	1	ATGCCGGCCC	6805	#DIV/0!	#DIV/0!
0	1	0	ATGCCGCTA	6806	#DIV/0!	0.0
1	0	0	ATGCCGGCTG	6807	0.0	#DIV/0!
1	0	0	ATGCCGGGCT	6808	0.0	#DIV/0!
1	1	0	ATGCCGGGTC	6809	0.0	#DIV/0!
0	0	1	ATGCCGTCA	6810	#DIV/0!	#DIV/0!
1	0	0	ATGCCCTTG	6811	0.0	#DIV/0!
1	1	0	ATCGCTTAA	6812	0.0	#DIV/0!
1	1	0	ATGGGGCTC	6813	0.0	#DIV/0!
0	0	1	ATGGGGGCT	6814	#DIV/0!	0.0
1	1	0	ATGGGTCTC	6815	0.0	#DIV/0!
0	0	1	ATGGGTGCTT	6816	#DIV/0!	0.0
0	0	1	ATGGTACAAT	6817	#DIV/0!	#DIV/0!
0	1	0	ATGGTATTAA	6818	#DIV/0!	0.0
0	0	1	ATGGTCTAGG	6819	#DIV/0!	#DIV/0!
1	0	0	ATCGTGGGG	6820	0.0	#DIV/0!
0	1	0	ATCGTGGAAC	6821	#DIV/0!	0.0
0	1	0	ATCGTGGTGG	6822	#DIV/0!	0.0
1	0	0	ATCGTTACGG	6823	0.0	#DIV/0!
1	1	0	ATCGTTTAC	6824	0.0	#DIV/0!
0	1	0	ATCTAACTCC	6825	#DIV/0!	0.0
1	0	0	ATCTACAGGT	6826	0.0	#DIV/0!
1	1	0	ATCTAGTCTG	6827	0.0	#DIV/0!
1	1	0	ATCTATGTAA	6828	0.0	#DIV/0!
0	1	0	ATCTCAACAT	6829	#DIV/0!	0.0
1	0	0	ATCTCACAAA	6830	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATCTCAGTGC	6831	0.0	#DIV/0!	0.0
0	0	1	ATCTCCAGAA	6832	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCTCCCCAAT	6833	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCTCCCTAAT	6834	0.0	#DIV/0!	0.0
0	1	0	ATCTCCCTCA	6835	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTCCCTTC	6836	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTCGAACG	6837	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTGACGAT	6838	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCTGCTACA	6839	0.0	#DIV/0!	0.0
0	0	0	ATCTGGCTCAT	6840	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCTGGATAT	6841	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCTGGATT	6842	0.0	#DIV/0!	0.0
0	1	0	ATCTGTAAAA	6843	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCTGTATT	6844	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ATCTGTACATC	6845	0.0	#DIV/0!	0.0
0	1	0	ATCTGTGATA	6846	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCTGTGGCT	6847	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ATCTGTGGC	6848	0.0	#DIV/0!	0.0
0	1	0	ATCTTAATT	6849	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTTAGTT	6850	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTTCACTA	6851	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTTCTTGT	6852	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCTGAAGC	6853	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ATCTTAACT	6854	0.0	#DIV/0!	0.0
1	0	0	ATCTTAAATA	6855	0.0	#DIV/0!	0.0
1	0	0	ATCTTATT	6856	0.0	#DIV/0!	0.0
1	0	0	ATCTTCTCA	6857	0.0	#DIV/0!	0.0
0	0	1	ATCTTGCC	6858	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	ATC <small>T</small> TCAC	6859	#DIV/0!	0.0	#DIV/0!
1	0	0	ATC <small>T</small> TCGT	6860	0.0	#DIV/0!	0.0
0	1	0	ATC <small>T</small> TTTAT	6861	#DIV/0!	0.0	#DIV/0!
0	1	0	ATC <small>T</small> TTTG	6862	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAAAGTTC	6863	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGAAGGGAA	6864	#DIV/0!	0.0	#DIV/0!
1	1	0	ATGAAGGATC	6865	0.0	#DIV/0!	0.0
0	0	1	ATGAAGGGTT	6866	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGAAGTAAA	6867	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGAAGTTAA	6868	#DIV/0!	0.0	#DIV/0!
1	1	0	ATGAAATTAC	6869	0.0	#DIV/0!	0.0
0	1	0	ATGAAATTGAA	6870	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGACAACGC	6871	0.0	#DIV/0!	0.0
0	1	0	ATGACATTA	6872	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGACCAGGC	6873	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ATGACTAAGT	6874	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGACTGGTG	6875	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGAGACAAA	6876	0.0	#DIV/0!	0.0
1	1	0	ATGAGAGGCC	6877	0.0	#DIV/0!	0.0
0	1	0	ATGAGATGCC	6878	#DIV/0!	0.0	#DIV/0!
1	1	0	ATGAGATTAC	6879	0.0	#DIV/0!	0.0
0	0	1	ATGAGCAGAA	6880	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAGCTATG	6881	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGAGCTGCG	6882	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGAGGAACG	6883	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGAGGAACT	6884	0.0	#DIV/0!	0.0
0	1	0	ATGAGGAGG	6885	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAGGGTTC	6886	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ATGAGGTCCA	6887	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGAGGTTCC	6888	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGAGTAGTA	6889	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAGTTACT	6890	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGATAACGC	6891	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ATGATAATGC	6892	0.0	#DIV/0!	#DIV/0!
0	0	1	ATGATACAAG	6893	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATACGCC	6894	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ATGATAGCAA	6895	0.0	#DIV/0!	0.0
0	0	1	ATGATAGCAG	6896	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATAGTAC	6897	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATCAGTC	6898	#DIV/0!	0.0	#DIV/0!
0	-1	0	ATGATCCACA	6899	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATCCCTG	6900	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGATCCTGA	6901	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATCGGT	6902	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATGAACT	6903	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGATGATAA	6904	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	ATGATGCCAA	6905	0.0	#DIV/0!	0.0
0	0	1	ATGATGCCGG	6906	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	ATGATGTCC	6907	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGATGTGAA	6908	0.0	#DIV/0!	0.0
0	0	1	ATGATTAACA	6909	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATTACCT	6910	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGATTACTG	6911	0.0	#DIV/0!	0.0
0	0	1	ATGATTGTTT	6912	#DIV/0!	0.0	#DIV/0!
1	1	0	ATGATTTTGA	6913	0.0	#DIV/0!	0.0
0	1	0	ATGCAACAGT	6914	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	0	ATGCAACGGC	6915	0.0	#DIV/0!	0.0
0	1	0	0	ATGCAAGTGT	6916	#DIV/0!	0.0	#DIV/0!
0	1	0	0	ATGCAAATT	6917	#DIV/0!	0.0	#DIV/0!
0	0	1	0	ATGCCACCTAC	6918	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	ATGCATCCC	6919	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	ATGCCAACCA	6920	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	ATGCCACTAC	6921	0.0	#DIV/0!	0.0
0	0	0	1	ATGCCAGTCT	6922	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	ATGCCATTG	6923	0.0	#DIV/0!	0.0
0	0	1	0	ATGCCCTGCCA	6924	#DIV/0!	0.0	#DIV/0!
1	0	0	0	ATGCCCTTACC	6925	#DIV/0!	0.0	#DIV/0!
0	0	0	1	ATGCCCTTTCT	6926	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	ATGCGAACAT	6927	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	ATGCGATTTC	6928	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	ATGCGTTATT	6929	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	ATGCTAGCTG	6930	#DIV/0!	0.0	#DIV/0!
0	0	0	1	ATGCTAGGGC	6931	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	ATGCTCAGCC	6932	0.0	#DIV/0!	0.0
1	0	0	0	ATGCTCCACG	6933	0.0	#DIV/0!	0.0
1	0	0	0	ATGCTGGGGG	6934	0.0	#DIV/0!	0.0
1	0	0	0	ATGCTGTGGA	6935	0.0	#DIV/0!	0.0
0	0	0	1	ATGCTTAGGG	6936	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	ATGCTTTCT	6937	#DIV/0!	0.0	#DIV/0!
0	1	0	0	ATGGAAAAT	6938	#DIV/0!	0.0	#DIV/0!
0	1	0	0	ATGGAAGAAC	6939	#DIV/0!	0.0	#DIV/0!
0	1	0	0	ATGGACCTCC	6940	#DIV/0!	0.0	#DIV/0!
1	0	0	0	ATGGAATCCA	6941	0.0	#DIV/0!	0.0
1	0	0	0	ATGGACTGAA	6942	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	ATGGAGTCGGT	6943	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGGATAAAAT	6944	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGATTACG	6945	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGGATTAA	6946	0.0	#DIV/0!	0.0
0	1	0	ATGGCACCGC	6947	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGCATTGC	6948	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGGCCATCT	6949	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGCCCACA	6950	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGCGAAC	6951	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGCGAATC	6952	0.0	#DIV/0!	0.0
1	0	0	ATGGCGAGTA	6953	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGCTAAAT	6954	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGCTCAAA	6955	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGCTCAGA	6956	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGGATTTT	6957	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGGCACCG	6958	0.0	#DIV/0!	0.0
-1	0	0	ATGGGCTCCC	6959	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGGGCTCT	6960	0.0	#DIV/0!	0.0
-1	0	0	ATGGGTGGTT	6961	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGAATGG	6962	0.0	#DIV/0!	0.0
-1	0	0	ATGGTATGAC	6963	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGAGCA	6964	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGATGA	6965	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGATC	6966	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGCTC	6967	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGTGAT	6968	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGTGTAA	6969	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTTATA	6970	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTTTCT				

Table 5, cont.

0	0	1	ATGTAAGATC	6971	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGTAAGATT	6972	0.0	#DIV/0!	0.0
0	1	0	ATGTAATAAGG	6973	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGTAACTCTT	6974	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGTACTTTA	6975	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGTAGGGCGG	6976	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGTAGTAGT	6977	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGTATGAGA	6978	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGTATGGTT	6979	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGTCAGCAT	6980	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGTCATATC	6981	0.0	#DIV/0!	0.0
0	0	1	ATGTCGGCTT	6982	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGTGATGGA	6983	#DIV/0!	0.0	#DIV/0!
1	1	0	ATGTGGATGT	6984	0.0	#DIV/0!	0.0
0	0	1	ATGTGTAA	6985	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGTGTCAA	6986	0.0	#DIV/0!	0.0
0	0	1	ATGTTAACCTT	6987	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGTTAAGCA	6988	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGTTATACT	6989	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGTTGATCT	6990	0.0	#DIV/0!	0.0
0	0	1	ATGTTGGCGA	6991	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGTTTTATT	6992	0.0	#DIV/0!	0.0
0	1	0	ATGTTTTGG	6993	#DIV/0!	0.0	#DIV/0!
1	1	0	ATAAAAGAT	6994	0.0	#DIV/0!	0.0
0	1	0	ATAAAACGAT	6995	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAAGTCC	6996	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATAAATCCT	6997	0.0	#DIV/0!	0.0
0	1	0	ATAAACAAA	6998	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATTAAACAAAG	6999	0.0	#DIV/0!	0.0
0	0	1	ATTAAAGGGTA	7000	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTAATCAAT	7001	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTAATGAAG	7002	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTAATTACA	7003	0.0	#DIV/0!	0.0
0	1	0	ATTAATTGTTG	7004	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTACCAATA	7005	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTACCGCTC	7006	0.0	#DIV/0!	0.0
0	1	0	ATTACCGTCT	7007	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTACCTGTT	7008	#DIV/0!	0.0	#DIV/0!
-1	0	0	ATTACGATAC	7009	0.0	#DIV/0!	0.0
0	1	0	ATTACGTGCC	7010	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTACGTGTC	7011	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTAGAAGAA	7012	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	ATTAGAATCA	7013	0.0	#DIV/0!	0.0
0	1	0	ATTAGAATCG	7014	#DIV/0!	0.0	#DIV/0!
-1	0	0	ATTAGATCTT	7015	0.0	#DIV/0!	0.0
0	0	1	ATTAGTGGAA	7016	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTAGTTACA	7017	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTATATTT	7018	#DIV/0!	0.0	#DIV/0!
-1	0	0	ATTATATTTT	7019	0.0	#DIV/0!	0.0
0	1	0	ATTATCACCG	7020	#DIV/0!	0.0	#DIV/0!
0	0	0	ATTATCGAA	7021	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTATCTCTG	7022	#DIV/0!	0.0	#DIV/0!
-1	0	0	ATTATCTGTT	7023	0.0	#DIV/0!	0.0
0	1	0	ATTATTAAGT	7024	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTATTACCA	7025	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTATTCATT	7026	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ATTATTCGAA	7027	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCAAAAGT	7028	0.0	#DIV/0!	0.0
1	1	0	ATTCAAACGC	7029	0.0	#DIV/0!	0.0
1	1	0	ATTCAAATA	7030	0.0	#DIV/0!	0.0
0	0	1	ATTCAACGTT	7031	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTCAACTGA	7032	#DIV/0!	0.0	#DIV/0!
1	1	0	ATTCAACTGG	7033	0.0	#DIV/0!	0.0
0	0	1	ATTCAAGCAG	7034	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ATTCAATTTC	7035	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCAAGGC	7036	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCAAGAT	7037	#DIV/0!	0.0	#DIV/0!
1	1	0	ATTCATATCT	7038	0.0	#DIV/0!	0.0
0	0	1	ATTCCAAAACA	7039	#DIV/0!	0.0	#DIV/0!
-1	1	0	ATTCCAAGAA	7040	0.0	#DIV/0!	0.0
0	0	1	ATTCCAGAAAT	7041	#DIV/0!	0.0	#DIV/0!
-1	1	0	ATTCCCAGT	7042	0.0	#DIV/0!	0.0
0	0	1	ATTCGCTAGC	7043	#DIV/0!	0.0	#DIV/0!
-1	1	0	ATTGGCTTC	7044	0.0	#DIV/0!	0.0
1	1	0	ATTGTATCT	7045	0.0	#DIV/0!	0.0
0	0	1	ATTGTGTAT	7046	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCTAACTC	7047	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTCTACGAA	7048	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCTAGCTC	7049	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTCTCAC	7050	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTCTTT	7051	#DIV/0!	0.0	#DIV/0!
-1	0	0	ATTCTGAAGA	7052	0.0	#DIV/0!	0.0
1	1	0	ATTCTGCAAT	7053	0.0	#DIV/0!	0.0
1	0	0	ATTCTGGAAA	7054	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ATTCTGGACC	7055	#DIV/0!	0.0
0	1	0	ATTCTGGGTT	7056	#DIV/0!	0.0
0	0	1	ATTCTGGTGA	7057	#DIV/0!	#DIV/0!
0	0	1	ATTCTGGGT	7058	#DIV/0!	#DIV/0!
0	0	1	ATTCTTCAGG	7059	#DIV/0!	#DIV/0!
0	0	1	ATTCTTGAGA	7060	#DIV/0!	#DIV/0!
0	0	1	ATTCTTGATT	7061	#DIV/0!	#DIV/0!
0	1	0	ATTCTGCCT	7062	#DIV/0!	0.0
0	1	0	ATTCTGGCA	7063	#DIV/0!	0.0
0	0	1	ATTCTGGCT	7064	#DIV/0!	0.0
0	1	0	ATTCTTCAA	7065	0.0	#DIV/0!
1	0	0	ATTCTTCGA	7066	#DIV/0!	0.0
0	1	0	ATTCTTTT	7067	#DIV/0!	0.0
0	0	1	ATTGAAATGG	7068	0.0	#DIV/0!
0	1	0	ATTGAATGTT	7069	#DIV/0!	0.0
-1	0	0	ATTGACGAAT	7070	0.0	#DIV/0!
0	1	0	ATTGAGAGAA	7071	#DIV/0!	0.0
0	1	0	ATTGATATT	7072	#DIV/0!	0.0
1	0	0	ATTGATTCAA	7073	0.0	#DIV/0!
1	0	0	ATTGATTCCG	7074	0.0	#DIV/0!
0	0	1	ATTGCCGTA	7075	#DIV/0!	#DIV/0!
0	0	1	ATTGCCGAGT	7076	#DIV/0!	#DIV/0!
0	0	1	ATTGCCGCTC	7077	#DIV/0!	#DIV/0!
0	0	1	ATTGGGTTT	7078	#DIV/0!	#DIV/0!
1	0	0	ATTGCTAAC	7079	0.0	#DIV/0!
1	0	0	ATTGCTCCAA	7080	0.0	#DIV/0!
0	0	1	ATTGCTGGCAT	7081	#DIV/0!	#DIV/0!
0	1	0	ATTGCTTAGG	7082	#DIV/0!	0.0

Table 5, cont.

0	1	0	ATGGAACGT	7083	#DIV/0!	0.0
0	1	0	ATGGATGTT	7084	#DIV/0!	0.0
1	0	0	ATGGGAAAC	7085	0.0	#DIV/0!
1	1	0	ATGGGAAAGA	7086	0.0	#DIV/0!
0	0	1	ATGGGAGAC	7087	#DIV/0!	#DIV/0!
0	-1	0	ATGGGTGAC	7088	#DIV/0!	0.0
-1	0	0	ATGGGGTGG	7089	0.0	#DIV/0!
0	0	1	ATGGTAGTC	7090	#DIV/0!	0.0
0	0	1	ATGGTCTGG	7091	#DIV/0!	#DIV/0!
0	0	1	ATGGTTT	7092	#DIV/0!	#DIV/0!
1	1	0	ATGTAACG	7093	0.0	#DIV/0!
1	1	0	ATGTAAGGT	7094	0.0	#DIV/0!
0	0	1	ATGGTAGATG	7095	#DIV/0!	0.0
0	0	1	ATGTAGTT	7096	#DIV/0!	#DIV/0!
0	0	1	ATGTCGTGG	7097	#DIV/0!	0.0
0	0	1	ATGTCCTGA	7098	#DIV/0!	#DIV/0!
1	1	0	ATGGGGTAG	7099	0.0	#DIV/0!
0	0	1	ATGGTAGAA	7100	#DIV/0!	0.0
0	0	1	ATGTCCTT	7101	#DIV/0!	#DIV/0!
1	1	0	ATGGTTTT	7102	0.0	#DIV/0!
0	0	1	ATGGTTGTC	7103	#DIV/0!	#DIV/0!
0	0	1	ATTAATGTT	7104	#DIV/0!	0.0
0	0	1	ATTACGTGA	7105	#DIV/0!	#DIV/0!
0	0	1	ATTACTCTG	7106	#DIV/0!	0.0
0	0	1	ATTAGTTAA	7107	#DIV/0!	#DIV/0!
0	0	1	ATTATCAAA	7108	#DIV/0!	#DIV/0!
0	0	1	ATTATGATT	7109	#DIV/0!	#DIV/0!
-1	0	0	ATTATGTTG	7110	0.0	#DIV/0!
						0.0

Table 5, cont.

1	0	0	ATTTTAAAT	7111	0.0	#DIV/0!	0.0
0	-1	0	ATTTTATTCT	7112	0.0	#DIV/0!	0.0
1	0	0	ATTCACAAA	7113	0.0	#DIV/0!	0.0
1	0	0	ATTCACGGG	7114	0.0	#DIV/0!	0.0
0	1	0	ATTCATCA	7115	#DIV/0!	0.0	#DIV/0!
0	0	-1	ATTCATGG	7116	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATTCACCAA	7117	0.0	#DIV/0!	0.0
0	0	1	ATTCATCCC	7118	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCACCG	7119	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTCGGATG	7120	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTCCTGAG	7121	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCCTCTC	7122	#DIV/0!	0.0	#DIV/0!
1	-1	0	ATTCCTTAGG	7123	0.0	#DIV/0!	0.0
0	0	-1	ATTCCTCAA	7124	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ATTCCTTGA	7125	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	ATTCCTTGA	7126	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTGAAAAA	7127	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTGATATC	7128	#DIV/0!	0.0	#DIV/0!
1	1	0	ATTTGATGAG	7129	0.0	#DIV/0!	0.0
0	0	1	ATTTGATGCA	7130	#DIV/0!	0.0	#DIV/0!
0	0	0	ATTTGATTCT	7131	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTGGACGG	7132	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTGGTAGA	7133	#DIV/0!	0.0	#DIV/0!
0	0	-1	ATTTGTAGAA	7134	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTGTCAGC	7135	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	ATTTGTTGA	7136	0.0	#DIV/0!	0.0
0	0	1	ATTTAAAAA	7137	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTAAAGTT	7138	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATTTTACAGC	7139	0.0	#DIV/0!		0.0
1	0	0	ATTTTAGAAC	7140	0.0	#DIV/0!		0.0
0	1	0	ATTTAGTAG	7141	#DIV/0!	0.0	#DIV/0!	
1	1	0	ATTTAGTCT	7142	0.0	#DIV/0!		0.0
1	1	0	ATTTAGTTA	7143	0.0	#DIV/0!		0.0
0	0	1	ATTTATTCA	7144	#DIV/0!	#DIV/0!		#DIV/0!
0	1	0	ATTTATTGT	7145	#DIV/0!	0.0	#DIV/0!	
-1	0	0	ATTTCAAAT	7146	0.0	#DIV/0!		0.0
1	0	0	ATTTCTCTT	7147	0.0	#DIV/0!		0.0
-1	0	0	ATTTCTTCA	7148	0.0	#DIV/0!		0.0
0	1	0	ATTTCTTGA	7149	#DIV/0!	0.0	#DIV/0!	
0	0	1	ATTTCTTTT	7150	#DIV/0!	0.0	#DIV/0!	
1	0	0	ATTTGAAGG	7151	0.0	#DIV/0!		0.0
0	1	0	ATTTGAGAA	7152	#DIV/0!	0.0	#DIV/0!	
0	0	1	ATTTGATAC	7153	#DIV/0!	0.0	#DIV/0!	
0	1	0	ATTTGGAAAT	7154	#DIV/0!	0.0	#DIV/0!	
0	0	0	ATTTGGCTG	7155	#DIV/0!	#DIV/0!		#DIV/0!
0	1	0	ATTTGTATC	7156	#DIV/0!	0.0	#DIV/0!	
0	0	1	ATTTGTTA	7157	#DIV/0!	0.0	#DIV/0!	
0	0	1	ATTTTACGC	7158	#DIV/0!	#DIV/0!		#DIV/0!
1	0	0	ATTTTGCGA	7159	0.0	#DIV/0!		0.0
0	0	1	ATTTTGGCA	7160	#DIV/0!	0.0	#DIV/0!	
0	0	0	ATTTGTTA	7161	#DIV/0!	#DIV/0!		#DIV/0!
0	1	0	CAAAAACCG	7162	#DIV/0!	0.0	#DIV/0!	
1	0	0	CAAAAAATTA	7163	0.0	#DIV/0!		0.0
0	0	1	CAAAAACAAC	7164	#DIV/0!	#DIV/0!		#DIV/0!
0	1	0	CAAAWACGAA	7165	#DIV/0!	0.0	#DIV/0!	
0	0	1	CAAAACAACA	7166	#DIV/0!	#DIV/0!		#DIV/0!

Table 5, cont.

0	0	1	CAAACCATC	7167	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAACCCAG	7168	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAACCAT	7169	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAAGACGT	7170	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAAGAGATT	7171	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGGCTG	7172	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAATAACCG	7173	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CAAATAGAT	7174	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CAAATGGAT	7175	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAATGGCT	7176	0.0	#DIV/0!	0.0
1	0	0	CAAATTTCC	7177	0.0	#DIV/0!	0.0
0	1	0	CAACATTA	7178	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAACCCAGC	7179	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAACCGACT	7180	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAACTGATT	7181	#DIV/0!	0.0	#DIV/0!
0	1	0	CAACTGGGT	7182	#DIV/0!	0.0	#DIV/0!
1	1	0	CAAAGACTTC	7183	0.0	#DIV/0!	0.0
0	0	1	CAAAGAGGG	7184	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CAAAGAGTCA	7185	0.0	#DIV/0!	0.0
0	0	1	CAAAGAAAT	7186	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGCATT	7187	#DIV/0!	0.0	#DIV/0!
1	1	0	CAAAGCCAA	7188	0.0	#DIV/0!	0.0
1	1	0	CAAAGCCTGC	7189	0.0	#DIV/0!	0.0
0	0	1	CAAAGAAAA	7190	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGGACCG	7191	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGGACCT	7192	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGGACTA	7193	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAGGATT	7194	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CAAAGGTCGT	7195	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGGTGGC	7196	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGTCATA	7197	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGTCCTT	7198	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGTCGAC	7199	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGTGGCT	7200	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGTTGAA	7201	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGTTTA	7202	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAATATAATT	7203	#DIV/0!	0.0	#DIV/0!
0	1	1	CAAATCTGGA	7204	0.0	#DIV/0!	0.0
0	1	1	CAAATCTTGG	7205	0.0	#DIV/0!	0.0
0	0	1	CAAATGCTGT	7206	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAATTCAAG	7207	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAATTCTAA	7208	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAATTAAAT	7209	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAATTGGAA	7210	#DIV/0!	0.0	#DIV/0!
0	0	0	CAAATTGGT	7211	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAACAAAAGA	7212	0.0	#DIV/0!	0.0
0	0	1	CAACAAGCCA	7213	#DIV/0!	0.0	#DIV/0!
0	0	1	CAACAATTAC	7214	#DIV/0!	0.0	#DIV/0!
0	1	0	CAACAATTGG	7215	0.0	#DIV/0!	0.0
1	1	0	CAACACGGGT	7216	0.0	#DIV/0!	0.0
1	1	0	CAACACTGAA	7217	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAACCAAGCA	7218	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAACCAAGCTT	7219	#DIV/0!	0.0	#DIV/0!
0	0	1	CAACCCAACT	7220	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAACCCAAATA	7221	#DIV/0!	0.0	#DIV/0!
0	0	1	CAACCGCTTA	7222	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CAACCTGTAT	7223	#DIV/0!	0.0		#DIV/0!
1	0	0	CAACGCTTTT	7224	0.0		#DIV/0!	0.0
-1	1	0	CAACGTCGGT	7225	0.0		#DIV/0!	0.0
-1	1	0	CAACGTCCTC	7226	0.0		#DIV/0!	0.0
0	0	1	CAACGTCTTT	7227	#DIV/0!		#DIV/0!	#DIV/0!
0	-1	0	CAACTATATT	7228	#DIV/0!	0.0		#DIV/0!
0	0	1	CAACTTACTC	7229	#DIV/0!		#DIV/0!	#DIV/0!
-1	0	0	CAACTCTCC	7230	#DIV/0!	0.0		#DIV/0!
-1	0	0	CAACTTGAGG	7231	0.0		#DIV/0!	0.0
0	0	1	CAACTTATC	7232	#DIV/0!	0.0		#DIV/0!
0	0	1	CAAGAAAAAA	7233	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	CAAGAAAAAT	7234	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	CAAGAAAATA	7235	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	CAAGAAGGGG	7236	#DIV/0!	0.0		#DIV/0!
1	1	0	CAAGAATAAA	7237	0.0		#DIV/0!	0.0
0	1	0	CAAGAGGGGA	7238	#DIV/0!	0.0		#DIV/0!
0	0	1	CAAGAGCTCC	7239	#DIV/0!		#DIV/0!	#DIV/0!
-1	0	0	CAAGAGTATC	7240	0.0		#DIV/0!	0.0
0	0	1	CAAGAGTGCA	7241	#DIV/0!	0.0		#DIV/0!
1	1	0	CAAGATGGCT	7242	0.0		#DIV/0!	0.0
0	0	1	CAAGCACGCC	7243	#DIV/0!		#DIV/0!	#DIV/0!
1	1	0	CAAGCCGGCG	7244	0.0		#DIV/0!	0.0
1	1	0	CAAGGGCTTA	7245	0.0		#DIV/0!	0.0
-1	1	0	CAAGGGGGCT	7246	0.0		#DIV/0!	0.0
0	1	0	CAAGGGAAATA	7247	#DIV/0!	0.0		#DIV/0!
-1	1	0	CAAGGGATAAA	7248	0.0		#DIV/0!	0.0
0	0	1	CAAGTATAAA	7249	#DIV/0!	0.0		#DIV/0!
1	1	0	CAAGTATTGA	7250	0.0		#DIV/0!	0.0

Table 5, cont.

1	0	0	CAAGTCTGGAA	7251	0.0	#DIV/0!		0.0
0	0	1	CAATAAAACA	7252	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CAATAAAATT	7253	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	CAATAATCGG	7254	0.0	#DIV/0!		
1	1	0	CAATAATGGG	7255	0.0	#DIV/0!		0.0
0	0	1	CAATACGTGG	7256	#DIV/0!	#DIV/0!	#DIV/0!	0.0
0	1	0	CAATATCGAA	7257	#DIV/0!	0.0	#DIV/0!	
1	0	0	CAATATTGA	7258	0.0	#DIV/0!		
1	0	0	CAATCAAAAA	7259	0.0	#DIV/0!		0.0
-1	0	0	CAATCATCTG	7260	0.0	#DIV/0!		0.0
0	1	0	CAATCCACTT	7261	#DIV/0!	0.0	#DIV/0!	
0	1	0	CAATGCCGG	7262	#DIV/0!	0.0	#DIV/0!	
0	0	-1	CAATCGTGGT	7263	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CAATCTCAGG	7264	#DIV/0!	#DIV/0!	#DIV/0!	0.0
0	0	1	CAATCTGACA	7265	#DIV/0!	0.0	#DIV/0!	
1	1	0	CAATGAAAAA	7266	0.0	#DIV/0!		
0	0	0	CAATGATTGA	7267	#DIV/0!	0.0	#DIV/0!	0.0
1	1	0	CAATGCAATT	7268	0.0	#DIV/0!		
1	1	0	CAATGCTGAG	7269	0.0	#DIV/0!		0.0
0	0	0	CAATGGACCG	7270	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CAATGGCCAG	7271	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CAATGGTTCC	7272	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CAATGGGCAT	7273	#DIV/0!	0.0	#DIV/0!	
0	1	0	CAATGTTTAC	7274	#DIV/0!	0.0	#DIV/0!	
1	1	0	CAATTAAAAA	7275	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CAATTATCAA	7276	#DIV/0!	0.0	#DIV/0!	
-1	0	0	CAATTCTCTA	7277	0.0	#DIV/0!		0.0
1	0	0	CAATTCTGG	7278	0.0	#DIV/0!		0.0

Table 5, cont.

0	0	CAATTGATAT	7279	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CAATTGATCT	7280	#DIV/0!	0.0	#DIV/0!
-1	0	CAATTGATTA	7281	0.0	#DIV/0!	0.0
0	0	CAATTAAAT	7282	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	CAATTAGCG	7283	0.0	#DIV/0!	0.0
0	-1	CAATTGGTGT	7284	#DIV/0!	0.0	#DIV/0!
0	0	CAATTGGT	7285	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CACAAAACCT	7286	#DIV/0!	0.0	#DIV/0!
-1	0	CACAAAGGGAA	7287	0.0	#DIV/0!	0.0
0	1	CACAAATTTT	7288	#DIV/0!	0.0	#DIV/0!
0	0	CACAACCCAA	7289	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	CACAAGTCATA	7290	0.0	#DIV/0!	0.0
-1	0	CACACATTGA	7291	0.0	#DIV/0!	0.0
0	0	CACACCAAAA	7292	0.0	#DIV/0!	0.0
0	1	CACACCAAGG	7293	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	CACACCAATT	7294	#DIV/0!	0.0	#DIV/0!
0	0	CACACCCGA	7295	#DIV/0!	#DIV/0!	#DIV/0!
0	0	CACACCTGAA	7296	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	CACACTTGA	7297	0.0	#DIV/0!	0.0
0	0	CACAGACCAG	7298	#DIV/0!	#DIV/0!	#DIV/0!
0	0	CACAGGTAC	7299	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CACAGTTCA	7300	#DIV/0!	0.0	#DIV/0!
0	0	CACAGTTCC	7301	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	CACATAAAA	7302	0.0	#DIV/0!	0.0
0	0	CACATAAGGA	7303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	CACATAGAAG	7304	#DIV/0!	#DIV/0!	#DIV/0!
1	0	CACATATAA	7305	0.0	#DIV/0!	0.0
0	1	CACATCTCAG	7306	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CACATTTTC	7307	0.0	#DIV/0!	0.0
0	0	1	CACATTTTT	7308	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACCAAAAAA	7309	0.0	#DIV/0!	0.0
0	0	0	CACCAAAGAA	7310	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACCAAAGGC	7311	#DIV/0!	0.0	#DIV/0!
0	0	1	CACCAACTAC	7312	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACCAAGCGT	7313	0.0	#DIV/0!	0.0
0	0	1	CACCATCGAA	7314	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CACCCACCG	7315	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACCCAGATT	7316	#DIV/0!	0.0	#DIV/0!
0	0	1	CACCCGCCAG	7317	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACCGAAAAGC	7318	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACCGCGAAG	7319	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACCGTAAAAA	7320	0.0	#DIV/0!	0.0
0	1	0	CACCTCAAGG	7321	#DIV/0!	0.0	#DIV/0!
1	1	0	CACCTTCAAT	7322	0.0	#DIV/0!	0.0
1	1	0	CACGAAAAAA	7323	0.0	#DIV/0!	0.0
0	1	0	CACGAAGTCG	7324	#DIV/0!	0.0	#DIV/0!
1	0	0	CACGACTACT	7325	0.0	#DIV/0!	0.0
1	1	0	CACGATCGAA	7326	0.0	#DIV/0!	0.0
0	0	1	CACGATTGAA	7327	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CACGGAAAAGC	7328	0.0	#DIV/0!	0.0
0	0	1	CACGGCGCCG	7329	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CACGTAAGGG	7330	#DIV/0!	0.0	#DIV/0!
1	1	0	CACGTCCACA	7331	0.0	#DIV/0!	0.0
0	0	1	CACGTTCTG	7332	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACTAAACTG	7333	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CACTAACAAAG	7334	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	CACTAACCAT	7335	#DIV/0!	0.0		#DIV/0!
0	0	1	CACTAATAAA	7336	#DIV/0!	0.0		#DIV/0!
0	0	1	CACTAGTTTC	7337	#DIV/0!	0.0		#DIV/0!
0	0	0	CACTATCATC	7338	#DIV/0!	#DIV/0!		#DIV/0!
0	0	0	CACTCAACAA	7339	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	CACTCACCCA	7340	#DIV/0!	0.0		#DIV/0!
0	1	0	CACTCCAAGA	7341	#DIV/0!	0.0		#DIV/0!
0	0	0	CACTCCGGCC	7342	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CACTCGGGGC	7343	0.0	#DIV/0!		#DIV/0!
0	0	1	CACTCTGGGC	7344	#DIV/0!	#DIV/0!	0.0	
1	0	0	CACTGCTGAT	7345	0.0	#DIV/0!		#DIV/0!
0	0	0	CACTGCTTAA	7346	#DIV/0!	#DIV/0!	0.0	
0	0	1	CACTGGAGTT	7347	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	CACTGTCCCC	7348	#DIV/0!	#DIV/0!		#DIV/0!
0	0	0	CACTGTTTAT	7349	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CACTTCAACG	7350	0.0	#DIV/0!		#DIV/0!
0	0	1	CACTTCCACA	7351	#DIV/0!	#DIV/0!	0.0	
0	0	1	CACTTCGACA	7352	#DIV/0!	#DIV/0!		#DIV/0!
1	1	0	CACTTCGACT	7353	0.0	#DIV/0!		#DIV/0!
0	0	1	CACTTCTGGC	7354	#DIV/0!	0.0		#DIV/0!
0	0	1	CACTTCTTAA	7355	#DIV/0!	#DIV/0!		#DIV/0!
1	1	0	CACTTGAAAA	7356	0.0	#DIV/0!		#DIV/0!
0	0	0	CACTGAAGC	7357	#DIV/0!	#DIV/0!	0.0	
-1	0	0	CACTTGAGTC	7358	#DIV/0!	0.0		#DIV/0!
0	0	1	CACTTTAAAA	7359	#DIV/0!	#DIV/0!		#DIV/0!
0	1	0	CACTTTTAT	7360	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGAAAAGTT	7361	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	CAGAAACAA	7362	#DIV/0!	#DIV/0!		#DIV/0!

Table 5, cont.

0	0	1	CAGAAGAAAGG	7363	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGAAGAGAT	7364	0.0	#DIV/0!	0.0
-1	0	0	CAGAAGGCTA	7365	0.0	#DIV/0!	0.0
0	-1	0	CAGAAATATGC	7366	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGAAATGAAT	7367	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	CAGAAATGATG	7368	#DIV/0!	0.0	#DIV/0!
0	0	-1	CAGACAAACT	7369	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGACACACA	7370	0.0	#DIV/0!	0.0
0	0	1	CAGACGAACT	7371	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CAGAGGCCAA	7372	0.0	#DIV/0!	0.0
0	-1	0	CAGAGGGCTT	7373	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGAGTTGGT	7374	0.0	#DIV/0!	0.0
0	-1	0	CAGATAACAGA	7375	#DIV/0!	0.0	#DIV/0!
-1	0	0	CAGATATTGA	7376	0.0	#DIV/0!	0.0
0	1	0	CAGATCTATT	7377	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGATCTGAG	7378	0.0	#DIV/0!	0.0
-1	1	0	CAGATGGGGG	7379	0.0	#DIV/0!	0.0
0	0	1	CAGATGGTC	7380	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	CAGATTCAA	7381	0.0	#DIV/0!	0.0
-1	0	0	CAGATTCTC	7382	0.0	#DIV/0!	0.0
0	0	1	CAGATTCTG	7383	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGCAAAACT	7384	0.0	#DIV/0!	0.0
0	0	1	CAGCAAAAGA	7385	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	CAGCAGATTG	7386	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGCAGCAA	7387	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGCAGGTTC	7388	#DIV/0!	0.0	#DIV/0!
0	-1	0	CAGCCAAAAA	7389	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGCCAAATA	7390	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	CAGCCAAGAC	7391	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGCCGGCTT	7392	#DIV/0!	0.0		#DIV/0!
0	0	0	CAGCCGGGTC	7393	#DIV/0!	#DIV/0!		#DIV/0!
-1	1	0	CAGCCTTAA	7394	0.0	#DIV/0!	0.0	
0	0	1	CAGGCCAGGC	7395	#DIV/0!	0.0		#DIV/0!
0	0	0	CAGCGGACCC	7396	#DIV/0!	#DIV/0!		#DIV/0!
0	0	0	CAGCGGTGGT	7397	#DIV/0!	#DIV/0!		#DIV/0!
-1	1	0	CAGCTAACCG	7398	0.0	#DIV/0!	0.0	
-1	0	0	CAGCTAAGGA	7399	0.0	#DIV/0!	0.0	
0	0	1	CAGCTAAGGC	7400	#DIV/0!	0.0		#DIV/0!
1	1	0	CAGCTCTCAC	7401	0.0	#DIV/0!	0.0	
0	0	1	CAGCTGACCG	7402	#DIV/0!	0.0		#DIV/0!
1	0	0	CAGCTTATC	7403	0.0	#DIV/0!	0.0	
0	0	1	CAGCTTTCTT	7404	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGCTTTAA	7405	#DIV/0!	0.0		#DIV/0!
-1	1	0	CAGGAAATGG	7406	0.0	#DIV/0!	0.0	
-1	0	0	CAGGAAGCAG	7407	0.0	#DIV/0!	0.0	
-1	0	0	CAGGAATAAA	7408	0.0	#DIV/0!	0.0	
0	0	1	CAGGAATGCT	7409	#DIV/0!	0.0		#DIV/0!
0	0	0	CAGGACCATC	7410	#DIV/0!	#DIV/0!		#DIV/0!
-1	1	0	CAGGAGAGAT	7411	0.0	#DIV/0!	0.0	
0	0	1	CAGGATGTT	7412	#DIV/0!	0.0		#DIV/0!
-1	0	0	CAGGCACTAA	7413	0.0	#DIV/0!	0.0	
0	0	1	CAGGCCAGTT	7414	#DIV/0!	0.0		#DIV/0!
0	0	0	CAGGCTCATC	7415	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	CAGGGAGTCT	7416	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGGGATCGA	7417	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGGGTAAAA	7418	#DIV/0!	0.0		#DIV/0!

Table 5, cont.

0	1	0	CAGGTAGGCA	7419	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGGTCTTGC	7420	#DIV/0!		#DIV/0!	#DIV/0!
-1	1	0	CAGGTGATAG	7421	0.0		#DIV/0!	0.0
1	1	0	CAGGTCTGT	7422	0.0		#DIV/0!	0.0
1	1	0	CAGGTGGTT	7423	0.0		#DIV/0!	0.0
0	0	1	CAGTAATACT	7424	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGTAATACTC	7425	#DIV/0!		#DIV/0!	#DIV/0!
-1	1	0	CAGTACAAC	7426	0.0		#DIV/0!	0.0
0	-1	0	CAGTACACCG	7427	#DIV/0!	0.0		#DIV/0!
0	0	1	CAGTAGCAA	7428	#DIV/0!		#DIV/0!	#DIV/0!
-1	1	0	CAGTATCTAA	7429	0.0		#DIV/0!	0.0
0	0	1	CAGTGCGAAA	7430	#DIV/0!		#DIV/0!	#DIV/0!
-1	0	0	CAGTGGAACAA	7431	0.0		#DIV/0!	0.0
0	0	1	CAGTTAAATT	7432	#DIV/0!		#DIV/0!	#DIV/0!
1	1	0	CAGTTCTTCA	7433	0.0		#DIV/0!	0.0
-1	1	0	CAGTTGATT	7434	0.0		#DIV/0!	0.0
0	0	1	CATAAACTCT	7435	#DIV/0!	0.0		#DIV/0!
0	0	1	CATAAAATTAC	7436	#DIV/0!		#DIV/0!	#DIV/0!
-1	1	0	CATAACCCTTC	7437	0.0		#DIV/0!	0.0
0	1	0	CATAACTCAT	7438	#DIV/0!	0.0		#DIV/0!
0	1	0	CATAAGCAAC	7439	#DIV/0!	0.0		#DIV/0!
0	1	0	CATAAGTTT	7440	#DIV/0!	0.0		#DIV/0!
1	1	0	CATAAATTTC	7441	0.0		#DIV/0!	0.0
-1	1	0	CATACGCCAA	7442	0.0		#DIV/0!	0.0
0	0	1	CATACGTGTA	7443	#DIV/0!		#DIV/0!	#DIV/0!
0	1	0	CATACTCTCG	7444	#DIV/0!	0.0		#DIV/0!
-1	1	0	CATACTTCAT	7445	0.0		#DIV/0!	0.0
-1	1	0	CATACTTCGA	7446	0.0		#DIV/0!	0.0

Table 5, cont.

0	0	1	CATAGCCAAT	7447	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATATAAACG	7448	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATATAACTA	7449	#DIV/0!	0.0	#DIV/0!
-1	0	0	CATATACATT	7450	0.0	#DIV/0!	0.0
0	0	1	CATATAGAAC	7451	#DIV/0!	0.0	#DIV/0!
0	0	0	CATATAGATA	7452	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATATATAAA	7453	#DIV/0!	0.0	#DIV/0!
0	0	0	CATATCTCGAA	7454	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CATATGTGGCT	7455	0.0	#DIV/0!	#DIV/0!
1	1	0	CATATTCTGT	7456	0.0	#DIV/0!	0.0
1	1	0	CATATTGGG	7457	0.0	#DIV/0!	0.0
0	0	1	CATCAAAAAA	7458	#DIV/0!	0.0	#DIV/0!
-1	0	0	CATCAAAAGT	7459	0.0	#DIV/0!	0.0
-1	1	0	CATCAAGATT	7460	0.0	#DIV/0!	0.0
0	0	1	CATCAATGGA	7461	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCACGTAC	7462	#DIV/0!	0.0	#DIV/0!
0	0	0	CATCACTGAT	7463	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CATCAGAACAT	7464	0.0	#DIV/0!	0.0
1	1	0	CATCAGCTAA	7465	0.0	#DIV/0!	0.0
1	1	0	CATCAGCTCT	7466	0.0	#DIV/0!	0.0
0	0	1	CATCATTAAC	7467	#DIV/0!	0.0	#DIV/0!
0	0	1	CATCATTATA	7468	#DIV/0!	0.0	#DIV/0!
0	0	0	CATCATTCTT	7469	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CATCATTAA	7470	0.0	#DIV/0!	0.0
-1	0	0	CATCCAAATCC	7471	0.0	#DIV/0!	0.0
-1	0	0	CATCCATTAG	7472	0.0	#DIV/0!	0.0
0	0	1	CATCCCTTAAT	7473	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATCGACACT	7474	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CATCGGTCTA CATCGGTCTG	7475 7476	#DIV/0! #DIV/0!		#DIV/0! #DIV/0!		#DIV/0! #DIV/0!
1	0	0	CATCGTTCTT CATCTAACGC	7477 7478	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	-1	0	CATCTACACA CATCTACTGG	7479 7480	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	1	0	CATCTAGGAG CATCTATTCC	7481 7482	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	-1	0	CATCTCAAA CATCTCATAT	7483 7484	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	1	0	CATCTCTCAA CATCTCTCTT	7485 7486	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	0	1	CATCTGGAAC CATCTTATCT	7487 7488	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	0	1	CATCTTACT CATCTTTTT	7489 7490	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
1	0	0	CATTTAAAAA CATTTAAAGT	7491 7492	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	0	1	CATTTAAGCG CATTTAAGTCT	7493 7494	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	-1	0	CATTTATGTT CATTAGCCTT	7495 7496	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
1	0	0	CATTAGGAAC CATTATAAAG	7497 7498	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
1	0	0	CATTATTGAA CATTCAAAAT	7499 7500	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
0	1	0	CATTCCTATA CATTCCTTAT	7501 7502	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!	0.0 0.0	#DIV/0! #DIV/0!
-1	0	0							0.0

Table 5, cont.

1	0	0	CATTCGGGC	7503	0.0	#DIV/0!	0.0
0	1	0	CATTCTGTTG	7504	0.0	#DIV/0!	#DIV/0!
0	0	1	CATTGAAGAA	7505	0.0	#DIV/0!	#DIV/0!
0	1	0	CATTGAGCAA	7506	0.0	#DIV/0!	#DIV/0!
-1	0	0	CATTGAGCCG	7507	0.0	#DIV/0!	0.0
0	0	1	CATTGCAAGT	7508	0.0	#DIV/0!	#DIV/0!
0	1	0	CATTGCCATT	7509	0.0	#DIV/0!	#DIV/0!
-1	0	0	CATTGGATGG	7510	0.0	#DIV/0!	0.0
0	0	1	CATTACCCA	7511	0.0	#DIV/0!	0.0
-1	0	0	CATTCTAG	7512	0.0	#DIV/0!	#DIV/0!
0	0	1	CATTCTTAT	7513	0.0	#DIV/0!	0.0
0	1	0	CATTCTTCT	7514	0.0	#DIV/0!	#DIV/0!
0	0	1	CATTCTTCA	7515	0.0	#DIV/0!	#DIV/0!
0	0	1	CATTGAAGG	7516	0.0	#DIV/0!	#DIV/0!
0	0	1	CATTGATAG	7517	0.0	#DIV/0!	#DIV/0!
0	0	0	CATTGCAGG	7518	0.0	#DIV/0!	#DIV/0!
0	0	1	CATTGGGTA	7519	0.0	#DIV/0!	#DIV/0!
0	1	0	CATTGGGTC	7520	0.0	#DIV/0!	0.0
0	0	1	CATTTACCC	7521	0.0	#DIV/0!	0.0
0	0	1	CATTTACCT	7522	0.0	#DIV/0!	#DIV/0!
0	0	0	CATTTATAT	7523	0.0	#DIV/0!	#DIV/0!
0	0	1	CATTCCCCC	7524	0.0	#DIV/0!	#DIV/0!
-1	0	0	CATTTCGAA	7525	0.0	#DIV/0!	0.0
-1	0	0	CATTTTGG	7526	0.0	#DIV/0!	0.0
1	0	0	CATTTTTC	7527	0.0	#DIV/0!	0.0
0	1	0	CCAAAAGGG	7528	0.0	#DIV/0!	0.0
0	0	1	CCAAAACCTC	7529	0.0	#DIV/0!	#DIV/0!
1	0	0	CCAAAAGGGC	7530	0.0	#DIV/0!	0.0

Table 5, cont.

-1	0	0	CCAAAATTTG	7531	0.0	#DIV/0!	0.0
0	1	0	CCAAACAGGT	7532	0.0	#DIV/0!	#DIV/0!
0	0	-1	CCAAAACCGAA	7533	0.0	#DIV/0!	#DIV/0!
0	1	0	CCAAACTAGG	7534	0.0	#DIV/0!	#DIV/0!
-1	0	0	CCAAAGGTAA	7535	0.0	#DIV/0!	#DIV/0!
-1	0	0	CCAAAGGTAT	7536	0.0	#DIV/0!	0.0
-1	-1	0	CCAAAGGTAA	7537	0.0	#DIV/0!	0.0
0	0	-1	CCAAAGTGCC	7538	0.0	#DIV/0!	0.0
-1	1	0	CCAAAGTGGAA	7539	0.0	#DIV/0!	#DIV/0!
0	0	1	CCAAATAGTA	7540	0.0	#DIV/0!	0.0
-1	1	0	CCAAATCCAT	7541	0.0	#DIV/0!	#DIV/0!
0	0	0	CCAAATCTGG	7542	0.0	#DIV/0!	0.0
0	-1	0	CCAAATCTTT	7543	0.0	#DIV/0!	#DIV/0!
0	0	1	CCAAATGACG	7544	0.0	#DIV/0!	0.0
0	0	1	CCAAATGCCA	7545	0.0	#DIV/0!	#DIV/0!
-1	1	0	CCAAATTCCA	7546	0.0	#DIV/0!	#DIV/0!
0	0	-1	CCAAACAATC	7547	0.0	#DIV/0!	0.0
0	0	1	CCAAACGGAT	7548	0.0	#DIV/0!	#DIV/0!
-1	1	0	CCAACTTAA	7549	0.0	#DIV/0!	#DIV/0!
-1	1	0	CCAACTAAGT	7550	0.0	#DIV/0!	0.0
0	0	0	CCAACTCAA	7551	0.0	#DIV/0!	0.0
0	0	0	CCAACTGGAG	7552	0.0	#DIV/0!	0.0
0	0	1	CCAAAGAAGT	7553	0.0	#DIV/0!	0.0
0	0	-1	CCAAAGAATT	7554	0.0	#DIV/0!	#DIV/0!
-1	1	0	CCAAAGGCCG	7555	0.0	#DIV/0!	#DIV/0!
0	0	1	CCAAAGCGTGC	7556	0.0	#DIV/0!	0.0
0	0	1	CCAAAGGATAT	7557	0.0	#DIV/0!	#DIV/0!
0	0	1	CCAAAGGGCAT	7558	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	CCAAAGGGAT	7559	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAAGGTTAA	7560	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAAGGGTCT	7561	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAAGGTATC	7562	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAAAGGTTAT	7563	0.0	#DIV/0!	#DIV/0!
1	0	0	CCAAAGGTCT	7564	0.0	#DIV/0!	0.0
0	0	1	CCAAAGTACTT	7565	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAAGTGCTA	7566	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAAATTTC	7567	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAATCTCA	7568	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAATGAGCA	7569	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAATGCATT	7570	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAATGGAAA	7571	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAATTAAATT	7572	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAATTCAATT	7573	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAAATTTTG	7574	0.0	#DIV/0!	#DIV/0!
0	0	1	CCACAAAAAA	7575	#DIV/0!	0.0	#DIV/0!
0	0	1	CCACAATCCT	7576	#DIV/0!	0.0	#DIV/0!
0	0	1	CCACCAATT	7577	#DIV/0!	0.0	#DIV/0!
1	0	0	CCACCAAGATT	7578	0.0	#DIV/0!	0.0
0	0	1	CCAOGCCAC	7579	#DIV/0!	0.0	#DIV/0!
1	0	0	CCACGGTTT	7580	0.0	#DIV/0!	0.0
0	1	0	CCACTAAAG	7581	#DIV/0!	0.0	#DIV/0!
1	0	0	CCACTAAAAAT	7582	0.0	#DIV/0!	0.0
0	1	0	CCACTCAGCG	7583	#DIV/0!	0.0	#DIV/0!
0	0	1	CCACTGACCT	7584	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAGAAAACT	7585	0.0	#DIV/0!	0.0
1	0	0	CCAGAAACAA	7586	0.0	#DIV/0!	0.0

Table 5, cont.

0	-1	0	CCAGAAATGA	7587	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGAACAAA	7588	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CCAGAACTAT	7589	0.0	#DIV/0!	0.0
0	0	0	CCAGAAGCTA	7590	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CCAGAATATC	7591	0.0	#DIV/0!	0.0
1	0	0	CCAGAATTGT	7592	0.0	#DIV/0!	0.0
0	0	-1	CCAGAGGCAA	7593	#DIV/0!	0.0	#DIV/0!
0	0	-1	CCAGAGTICA	7594	#DIV/0!	0.0	#DIV/0!
0	0	-1	CCAGATATGG	7595	#DIV/0!	0.0	#DIV/0!
0	0	-1	CCAGATCTGT	7596	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGATTAGT	7597	#DIV/0!	0.0	#DIV/0!
0	0	0	CCAGATTATG	7598	#DIV/0!	0.0	#DIV/0!
-1	0	0	CCAGATTCTGT	7599	0.0	#DIV/0!	0.0
0	0	1	CCAGATTAT	7600	#DIV/0!	0.0	#DIV/0!
0	0	0	CCAGATTGAA	7601	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAGATTGG	7602	#DIV/0!	0.0	#DIV/0!
0	0	-1	CCAGCAAGAT	7603	#DIV/0!	0.0	#DIV/0!
-1	0	0	CCAGCAGGCC	7604	0.0	#DIV/0!	0.0
0	0	1	CCAGCGAGCG	7605	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	CCAGCTGATG	7606	#DIV/0!	0.0	#DIV/0!
0	0	0	CCAGCTTTGG	7607	0.0	#DIV/0!	0.0
0	1	0	CCAGGCATCC	7608	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGGGACCA	7609	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CCAGGGGAGA	7610	0.0	#DIV/0!	#DIV/0!
-1	0	0	CCAGGTATGA	7611	#DIV/0!	#DIV/0!	0.0
1	0	0	CCAGGTCTGA	7612	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CCAGGTGAAT	7613	0.0	#DIV/0!	0.0
-1	0	0	CCAGTAAGAG	7614	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CCAGTATGAC	7615	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAGTTGAAATA	7616	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGTTGAG	7617	#DIV/0!	0.0	#DIV/0!
1	0	0	CCATAAAGTT	7618	0.0	#DIV/0!	0.0
0	0	1	CCATACAATA	7619	#DIV/0!	0.0	#DIV/0!
0	0	1	CCATACAGGC	7620	#DIV/0!	0.0	#DIV/0!
0	0	1	CCATACTACG	7621	#DIV/0!	0.0	#DIV/0!
0	0	1	CCATAGCTTA	7622	#DIV/0!	0.0	#DIV/0!
0	0	0	CCATATTCTT	7623	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CCATCAAGGCC	7624	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CCATCACATC	7625	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATCAGTTT	7626	0.0	#DIV/0!	0.0
0	0	1	CCATCCCTAC	7627	#DIV/0!	0.0	#DIV/0!
0	0	1	CCATCCCTGGG	7628	#DIV/0!	0.0	#DIV/0!
0	0	0	CCATCGGTAC	7629	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCATCTCAA	7630	#DIV/0!	0.0	#DIV/0!
0	0	1	CCATCTAAC	7631	#DIV/0!	0.0	#DIV/0!
1	1	0	CCATCTTAG	7632	0.0	#DIV/0!	0.0
0	0	0	CCATCTTCCT	7633	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATCTTGA	7634	0.0	#DIV/0!	0.0
0	0	1	CCATCTTGC	7635	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATTACATT	7636	0.0	#DIV/0!	0.0
1	1	0	CCATTAGAAC	7637	0.0	#DIV/0!	0.0
1	0	0	CCATTATCAA	7638	0.0	#DIV/0!	0.0
0	0	1	CCATTCTGGAA	7639	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATTCTGGT	7640	0.0	#DIV/0!	0.0
0	1	0	CCATTGAACA	7641	#DIV/0!	0.0	#DIV/0!
0	1	0	CCATTGGCTGT	7642	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	0	CCATTGGAA	7643	0.0	#DIV/0!	0.0
0	0	0	1	CCATTTGGAC	7644	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	CCATTTTCA	7645	0.0	#DIV/0!	0.0
0	0	0	1	CCATTTTCT	7646	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	CCAAAAAAA	7647	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	CCCAAAACTC	7648	#DIV/0!	0.0	#DIV/0!
0	0	0	0	CCCAAAATGG	7649	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	0	CCCAAAGCTG	7650	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	0	CCCAACTACT	7651	#DIV/0!	0.0	#DIV/0!
-1	0	0	0	CCCAACTCGG	7652	0.0	#DIV/0!	0.0
0	0	1	0	CCCAACTTC	7653	#DIV/0!	0.0	#DIV/0!
0	0	0	0	CCCAATCCA	7654	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	CCCAATTACT	7655	0.0	#DIV/0!	0.0
0	0	0	1	CCCACCAAGA	7656	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	CCCACCATCA	7657	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	CCCACCTTAT	7658	0.0	#DIV/0!	0.0
0	0	-1	0	CCCACGGAA	7659	#DIV/0!	0.0	#DIV/0!
0	0	1	0	CCCACGGTC	7660	#DIV/0!	0.0	#DIV/0!
1	1	0	0	CCOACTACG	7661	0.0	#DIV/0!	0.0
0	0	0	1	CCAGATATG	7662	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	0	CCCAAGGTAT	7663	#DIV/0!	0.0	#DIV/0!
0	0	1	0	CCCAAGTACCG	7684	#DIV/0!	0.0	#DIV/0!
0	0	0	1	CCOATACTCA	7665	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	CCCATCTTA	7666	0.0	#DIV/0!	0.0
0	1	0	0	CCCATTGAAA	7667	#DIV/0!	0.0	#DIV/0!
0	1	0	0	CCCATTTCT	7668	0.0	#DIV/0!	0.0
1	0	1	0	CCCCCGTAAC	7669	#DIV/0!	0.0	#DIV/0!
1	0	0	0	CCCCGTACCA	7670	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CCCCGATTGG	7671	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	CCCCGCTGGA	7672	#DIV/0!	0.0		#DIV/0!	
-1	0	0	CCCGGTACAA	7673	0.0	#DIV/0!		0.0	
0	1	0	CCCGGTACAC	7674	#DIV/0!	0.0		#DIV/0!	
1	0	0	CCCCGTCAT	7675	0.0	#DIV/0!		0.0	
1	0	0	CCCTCTAAAA	7676	0.0	#DIV/0!		0.0	
0	-1	0	CCCTCTTAATT	7677	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	CCCTTGTGCG	7678	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	CCCGATGTTG	7679	#DIV/0!	0.0		#DIV/0!	
0	0	0	CCGCCATAA	7680	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	CCGGCCGCTC	7681	#DIV/0!	0.0		#DIV/0!	
0	0	1	CCGGCGTCTC	7682	#DIV/0!	0.0		#DIV/0!	
1	0	0	CCGGATATG	7683	0.0	#DIV/0!		0.0	
0	0	0	CCGGTTTC	7684	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	CCGTAATAAG	7685	#DIV/0!	0.0		#DIV/0!	
1	0	0	CCCTAAAAAA	7686	0.0	#DIV/0!		0.0	
0	0	0	CCCTAAATT	7687	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	CCCTAAGTT	7688	#DIV/0!		#DIV/0!		#DIV/0!
-1	0	0	CCCTACTACG	7689	0.0	#DIV/0!		0.0	
0	0	1	CCCTACTGTC	7690	#DIV/0!		#DIV/0!		#DIV/0!
1	0	0	CCCTAGAAAG	7691	0.0	#DIV/0!		0.0	
1	1	0	CCCTCCCTCC	7692	0.0	#DIV/0!		0.0	
0	0	1	CCCTCCCTATA	7693	#DIV/0!	0.0		#DIV/0!	
-1	0	0	CCCTGCAAC	7694	0.0	#DIV/0!		0.0	
0	0	1	CCCTGGAAAGT	7695	#DIV/0!	0.0		#DIV/0!	
-1	0	0	CCCTTCCCCCT	7696	0.0	#DIV/0!		0.0	
0	1	0	CCCTCTGTG	7697	#DIV/0!	0.0		#DIV/0!	
-1	0	0	CCCTTGAAAA	7698	0.0	#DIV/0!		0.0	

Table 5, cont.

1	0	0	CCGAACCTGT	7699	0.0	#DIV/0!	0.0
0	1	0	CCGAACGGGT	7700	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGACAACGT	7701	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGACAAGTC	7702	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGAGAAGAA	7703	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGAGAACGT	7704	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGAGGGTAT	7705	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGATAAAAG	7706	#DIV/0!	0.0	#DIV/0!
1	0	0	CCGATATACT	7707	0.0	#DIV/0!	0.0
0	0	0	CCGATCACAA	7708	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGATTGTTT	7709	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGCCAGCGC	7710	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGGCCGCTAA	7711	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGCGCTAT	7712	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGCTAAAGT	7713	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGCTCCGAA	7714	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGCTGAGTC	7715	0.0	#DIV/0!	0.0
0	0	1	CCGAAAGCC	7716	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGGAACITGC	7717	0.0	#DIV/0!	0.0
1	1	0	CCGGAATGAC	7718	0.0	#DIV/0!	0.0
1	1	0	CCGGACAATG	7719	0.0	#DIV/0!	0.0
0	0	1	CCGGACGGCTG	7720	#DIV/0!	0.0	#DIV/0!
1	1	0	CCGGACGGCA	7721	0.0	#DIV/0!	0.0
0	1	0	CCGGACGGTT	7722	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGATATGA	7723	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGATCGTC	7724	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGATTGT	7725	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGCAAACC	7726	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CCGGGATTGA	7727	0.0	#DIV/0!		0.0
0	0	1	CCGGGCCACTC	7728	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CCGGGTATCG	7729	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CCGGGTCTCA	7730	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCGGGTTGGT	7731	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CCGGTTATAA	7732	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCGGTTCCGA	7733	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CCGGTTGCAG	7734	#DIV/0!	0.0	#DIV/0!	
1	0	0	CCGGTTTAC	7735	0.0	#DIV/0!	#DIV/0!	
0	1	0	CCGTAAGTGG	7736	#DIV/0!	0.0	#DIV/0!	
0	1	0	CCGTACCTCT	7737	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCGTCACTAC	7738	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CCGTCCATCA	7739	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCGTCCGTAT	7740	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CCGTCCCTCT	7741	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCGTCTGTTT	7742	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CCGTGTATGG	7743	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCGTТАCCCC	7744	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	0	CCGTCAACT	7745	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CCGTGAGGA	7746	#DIV/0!	0.0	#DIV/0!	
0	1	0	CCGTGGCAG	7747	#DIV/0!	0.0	#DIV/0!	
0	1	0	CCGTTTTGA	7748	#DIV/0!	0.0	#DIV/0!	
1	0	0	CCGTTTGG	7749	0.0	#DIV/0!	0.0	
0	0	1	CCTAAAGTTA	7750	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	CCTAAGCTAA	7751	0.0	#DIV/0!	0.0	
0	0	1	CCTAAGCTGA	7752	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	CCTACCGTCT	7753	0.0	#DIV/0!	0.0	
1	0	0	CCTACTAAA	7754	0.0	#DIV/0!	0.0	
						#DIV/0!		0.0

Table 5, cont.

1	0	0	CCTATAGAAA	7755	0.0	#DIV/0!	0.0
0	1	0	CCTATAGGGC	7756	0.0	#DIV/0!	#DIV/0!
-1	0	0	CCTATCTATA	7757	0.0	#DIV/0!	0.0
0	0	1	CCTATTGTTA	7758	0.0	#DIV/0!	#DIV/0!
-1	1	0	CCTCAACTTA	7759	0.0	#DIV/0!	0.0
0	0	0	CCTCAAGGTT	7760	0.0	#DIV/0!	#DIV/0!
-1	-1	0	CCTCAGAAAG	7761	0.0	#DIV/0!	#DIV/0!
0	0	0	CCTCCAAATAA	7762	0.0	#DIV/0!	0.0
-1	0	0	CCTCCAGCAC	7763	0.0	#DIV/0!	0.0
0	0	-1	CCTCCATTGA	7764	0.0	#DIV/0!	#DIV/0!
-1	0	0	CCTCCTAATG	7765	0.0	#DIV/0!	#DIV/0!
0	0	0	CCTCCCTGGTG	7766	0.0	#DIV/0!	0.0
0	0	0	CCTCTATAGC	7767	0.0	#DIV/0!	#DIV/0!
0	0	0	CCTCTCTTGA	7768	0.0	#DIV/0!	#DIV/0!
0	0	0	CCTCTCTTTT	7769	0.0	#DIV/0!	0.0
0	0	0	CCTCTGAAAG	7770	0.0	#DIV/0!	0.0
0	0	0	CCTCTGGQAA	7771	0.0	#DIV/0!	#DIV/0!
0	0	0	CCTCTGGGT	7772	0.0	#DIV/0!	0.0
0	0	-1	CCTCTAACAA	7773	0.0	#DIV/0!	#DIV/0!
0	0	0	CCTGAAGTTT	7774	0.0	#DIV/0!	#DIV/0!
0	0	0	CCTGAATAAA	7775	0.0	#DIV/0!	0.0
0	0	0	CCTGAATCTC	7776	0.0	#DIV/0!	0.0
0	0	0	CCTGACGTGT	7777	0.0	#DIV/0!	0.0
1	0	0	CCTGAGGTAT	7778	0.0	#DIV/0!	0.0
0	0	0	CCTGAGTATG	7779	0.0	#DIV/0!	0.0
0	0	0	CCTGATCAAG	7780	0.0	#DIV/0!	#DIV/0!
0	0	1	CCTGATGAGG	7781	0.0	#DIV/0!	#DIV/0!
0	1	0	CCTGATTGTT	7782	0.0	#DIV/0!	#DIV/0!

Table 5, cont

1	0	0	CCTGCAAAAA	7783	0.0	#DIV/0!	0.0
0	0	1	CCTGCAAAC	7784	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCTGCAAGCG	7785	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGCTCAAA	7786	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGGAAAGTA	7787	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTGGGAGCAG	7788	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGGGGCTC	7789	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGGGTGTT	7790	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGGTAAATC	7791	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGGGTGTTA	7792	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGTGCGTG	7793	#DIV/0!	0.0	#DIV/0!
0	0	0	CCTGTGACCA	7794	#DIV/0!	0.0	#DIV/0!
0	0	0	CCTGTGCTTT	7795	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGTCTCA	7796	#DIV/0!	0.0	#DIV/0!
1	1	0	CCTTAAAAAA	7797	0.0	#DIV/0!	0.0
1	1	0	CCTTACAATC	7798	0.0	#DIV/0!	0.0
1	1	0	CCTTATGTTG	7799	0.0	#DIV/0!	0.0
0	0	1	CCTTCACCAA	7800	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCTTCACCTT	7801	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTTCAGGG	7802	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTTCCGAAT	7803	0.0	#DIV/0!	0.0
0	0	1	CCTTCCTAAA	7804	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTTCCTATG	7805	0.0	#DIV/0!	0.0
1	1	0	CCTTCTCGTT	7806	0.0	#DIV/0!	0.0
1	1	0	CCTTCTGCTG	7807	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTTCTGTTT	7808	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTTCTTACA	7809	0.0	#DIV/0!	0.0
0	0	0	CCTTGCAGC	7810	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CCTGGCATT	7811	#DIV/0!		#DIV/0!	
0	1	0	CCTTTAGCCC	7812	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCTTCAGTT	7813	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	CCTTGAGGA	7814	#DIV/0!	0.0	#DIV/0!	
-1	0	0	CCTTGAGTG	7815	0.0	#DIV/0!	#DIV/0!	
0	0	1	CCTTGATAT	7816	#DIV/0!	0.0	#DIV/0!	
0	1	0	CCTTGCATAA	7817	#DIV/0!	0.0	#DIV/0!	
-1	1	0	CCTTGGACC	7818	0.0	#DIV/0!	#DIV/0!	
0	0	1	CCTTGGAGA	7819	#DIV/0!	0.0	#DIV/0!	
0	0	1	CCTTTACGT	7820	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	CCTTTATT	7821	0.0	#DIV/0!	#DIV/0!	
0	1	0	CCTTTCGTA	7822	#DIV/0!	0.0	#DIV/0!	
1	1	0	CCTTTTACA	7823	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTTTTGA	7824	#DIV/0!	#DIV/0!	#DIV/0!	
-1	0	0	CGAAAAAAA	7825	0.0	#DIV/0!	0.0	#DIV/0!
0	1	0	CGAAAGACTG	7826	#DIV/0!	0.0	#DIV/0!	
1	0	0	CGAAATTAA	7827	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CGAACGAGAA	7828	#DIV/0!	#DIV/0!	#DIV/0!	
-1	0	0	CGAACTTTC	7829	0.0	#DIV/0!	#DIV/0!	
0	0	1	CGAAAGATCT	7830	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	CGAAAGATGGC	7831	0.0	#DIV/0!	0.0	#DIV/0!
-1	1	0	CGAAAGTTCGC	7832	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	CGAAATAATCC	7833	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CGAAATATTCT	7834	#DIV/0!	0.0	#DIV/0!	
0	0	1	CGAAATCCGTC	7835	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	CGAAATCGAGA	7836	#DIV/0!	#DIV/0!	#DIV/0!	
-1	0	0	CGAAATCTCCC	7837	0.0	#DIV/0!	0.0	#DIV/0!
1	1	0	CGAAATTGCGT	7838	0.0	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CGAAATTTTG	7839	0.0	#DIV/0!	0.0
0	0	1	CGACAAACTG	7840	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGACAGGGT	7841	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CGACAGTGAC	7842	#DIV/0!	0.0	#DIV/0!
1	1	0	CGACCTTAGT	7843	#DIV/0!	0.0	#DIV/0!
0	0	0	CGACCTTGGT	7844	0.0	#DIV/0!	0.0
0	1	0	CGACGGGAGTT	7845	#DIV/0!	0.0	#DIV/0!
0	0	1	CGACGTATT	7846	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CGACTGGGTT	7847	0.0	#DIV/0!	0.0
-1	1	0	CGAGAGAAGA	7848	0.0	#DIV/0!	0.0
0	0	1	CGAGATCACA	7849	#DIV/0!	0.0	#DIV/0!
1	1	0	CGAGATTAA	7850	0.0	#DIV/0!	0.0
0	0	-1	CGAGGCAATAG	7851	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CGAGCTTTCA	7852	0.0	#DIV/0!	0.0
0	0	1	CGAGGGCAGA	7853	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGAGGGCTCCG	7854	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	CGAGGGAAAGC	7855	#DIV/0!	0.0	#DIV/0!
0	0	1	CGAGTCCTTC	7856	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CGAGTGCATA	7857	#DIV/0!	0.0	#DIV/0!
0	1	0	CGATCCCTCA	7858	#DIV/0!	0.0	#DIV/0!
0	0	0	CGATCTGGA	7859	#DIV/0!	0.0	#DIV/0!
0	0	0	CGATCTTAC	7860	#DIV/0!	0.0	#DIV/0!
0	0	0	CGATGACAGA	7861	#DIV/0!	0.0	#DIV/0!
0	0	1	CGATGCTCCT	7862	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGATGGTCC	7863	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGATGGTAA	7864	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGATTAATCA	7865	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	CGATTACAGT	7866	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CGATTCAATT	7867	0.0	#DIV/0!	0.0
0	1	0	CGATTGGCACA	7868	0.0	#DIV/0!	#DIV/0!
0	0	1	CGATTGGCA	7869	0.0	#DIV/0!	#DIV/0!
0	0	0	CGATTTAAC	7870	0.0	#DIV/0!	#DIV/0!
1	1	0	CGATTTTGA	7871	0.0	#DIV/0!	0.0
0	0	0	CGCAAAAATC	7872	0.0	#DIV/0!	#DIV/0!
1	1	0	CGCAAWGCT	7873	0.0	#DIV/0!	0.0
-1	-1	0	CGCAACGTGT	7874	0.0	#DIV/0!	0.0
0	0	1	CGCAAGAATT	7875	0.0	#DIV/0!	0.0
0	1	0	CGCAATATCA	7876	0.0	#DIV/0!	#DIV/0!
-1	0	0	CGCACGAGTG	7877	0.0	#DIV/0!	0.0
-1	1	0	CGCAAGGGCC	7878	0.0	#DIV/0!	0.0
0	0	0	CGCAGGGTA	7879	0.0	#DIV/0!	#DIV/0!
1	1	0	CGCAGTTATT	7880	0.0	#DIV/0!	0.0
0	0	1	CGCATAAAAA	7881	0.0	#DIV/0!	0.0
-1	1	0	CGCATCTCTT	7882	0.0	#DIV/0!	0.0
0	0	0	CGCATTAGTA	7883	0.0	#DIV/0!	#DIV/0!
1	0	0	CGCATTATAT	7884	0.0	#DIV/0!	#DIV/0!
0	0	1	CGCATTTCGGG	7885	0.0	#DIV/0!	0.0
-1	0	0	CGCATTAAAG	7886	0.0	#DIV/0!	0.0
0	0	0	CGCATTACCA	7887	0.0	#DIV/0!	0.0
0	1	0	CGCATTGAC	7888	0.0	#DIV/0!	0.0
1	1	0	CGCCAAAATA	7889	0.0	#DIV/0!	0.0
-1	0	0	CGCCAATCT	7890	0.0	#DIV/0!	0.0
0	1	0	CGCCACTCAA	7891	0.0	#DIV/0!	#DIV/0!
1	0	0	CGCCAGAACCC	7892	0.0	#DIV/0!	0.0
0	1	0	CGCCATTAAA	7893	0.0	#DIV/0!	#DIV/0!
0	0	1	CGCCTGAATG	7894	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	CGCGAAATA	7895	0.0	#DIV/0!	0.0
0	1	0	CGCGCAATAG	7896	#DIV/0!	0.0	#DIV/0!
0	0	1	CGCGCGTATA	7897	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGCGGCTAAGG	7898	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGCGTTGTAA	7899	#DIV/0!	0.0	#DIV/0!
0	0	1	CGCTAACTAC	7900	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CGCTAAGTGA	7901	0.0	#DIV/0!	0.0
0	0	1	CGCTACATAT	7902	#DIV/0!	0.0	#DIV/0!
1	1	0	CGCTACGTTC	7903	0.0	#DIV/0!	0.0
-1	0	0	CGCTACTGTC	7904	0.0	#DIV/0!	0.0
0	0	1	CGCTCCAACC	7905	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGCTCTTCCC	7906	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCTGGGTAA	7907	0.0	#DIV/0!	0.0
-1	0	0	CGCTTGTGAT	7908	0.0	#DIV/0!	0.0
0	0	1	CGCTTTGGCG	7909	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGGAAAACCTT	7910	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGGAAAGATG	7911	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGAGGGCTT	7912	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGAATTGGT	7913	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGACAAATC	7914	0.0	#DIV/0!	0.0
0	0	1	CGGACCCATTG	7915	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGACCTGGT	7916	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGACCTTGG	7917	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGAGAATAA	7918	#DIV/0!	0.0	#DIV/0!
1	0	0	CGGAGGGTAT	7919	0.0	#DIV/0!	0.0
0	0	1	CGGATGGTAC	7920	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGGATTACCA	7921	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGCCAAAAAA	7922	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	CGGCAAATTTC	7923	#DIV/0!	0.0		#DIV/0!
0	0	1	CGGCCCGTAG	7924	#DIV/0!	0.0		#DIV/0!
0	0	0	CGGCTCTGGG	7925	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	CGGCTTGGGA	7926	#DIV/0!	0.0		#DIV/0!
0	0	0	CGGAACAAAT	7927	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CGGGAATAAT	7928	0.0	#DIV/0!	0.0	#DIV/0!
0	0	0	CGGGAATTTC	7929	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CGGGACGCCA	7930	0.0	#DIV/0!	#DIV/0!	
-1	0	0	CGGGAGAACCT	7931	0.0	#DIV/0!	0.0	#DIV/0!
0	0	0	CGGGAGCTAA	7932	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CGGGCGGTGAA	7933	0.0	#DIV/0!	#DIV/0!	
-1	0	0	CGGGTCATCA	7934	0.0	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGGTTGATG	7935	#DIV/0!	0.0		#DIV/0!
-1	0	0	CGGTAATATA	7936	0.0	#DIV/0!	0.0	#DIV/0!
0	0	0	CGGTAGGCCA	7937	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CGGTAGTCCG	7938	0.0	#DIV/0!	0.0	#DIV/0!
0	0	0	CGGTAGTCCT	7939	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CGGTAGTCGA	7940	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGTCAACCAT	7941	#DIV/0!	#DIV/0!		#DIV/0!
0	0	0	CGGTCCAAC	7942	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CGGTCCCATT	7943	0.0	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGTGAAAGA	7944	#DIV/0!	0.0		#DIV/0!
0	0	1	CGGTGAGTGA	7945	#DIV/0!	0.0		#DIV/0!
0	0	1	CGGTGAGTGG	7946	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	CGGTGGCTTA	7947	#DIV/0!	#DIV/0!		#DIV/0!
0	1	0	CGGTGGTAGA	7948	#DIV/0!	0.0		#DIV/0!
0	0	1	CGGTAGTAT	7949	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CGGTTTGAGC	7950	0.0	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CGGTTTCTA	7951	#DIV/0!		
0	0	1	CGGTTTGGG	7952	#DIV/0!		
-1	0	0	CGTAAAAAA	7953	0.0	#DIV/0!	0.0
0	0	0	CGTAAATAC	7954	#DIV/0!		#DIV/0!
0	0	0	CGTAAGAAA	7955	#DIV/0!		#DIV/0!
0	0	0	CGTAATGTCG	7956	#DIV/0!		#DIV/0!
0	0	1	CGTACACAA	7957	#DIV/0!	0.0	#DIV/0!
0	1	0	CGTACAGAAA	7958	0.0	#DIV/0!	
-1	0	0	CGTAGGCAGTA	7959	#DIV/0!		0.0
0	0	0	CGTAGGGATGA	7960	#DIV/0!		#DIV/0!
0	0	0	CGTAGTAAGT	7961	#DIV/0!		#DIV/0!
0	0	1	CGTATTAGAG	7962	#DIV/0!	0.0	#DIV/0!
0	0	1	CGTATTCTATA	7963	#DIV/0!	0.0	#DIV/0!
1	1	0	CGTATTCTGA	7964	0.0	#DIV/0!	0.0
0	0	0	CGTATTAAA	7965	#DIV/0!		#DIV/0!
0	0	1	CGTCAAACA	7966	#DIV/0!	0.0	#DIV/0!
-1	0	0	CGTCAATTATC	7967	0.0	#DIV/0!	0.0
-1	1	0	CGTCAGGTG	7968	0.0	#DIV/0!	0.0
0	0	0	CGTCCAGGAT	7969	#DIV/0!		#DIV/0!
-1	0	0	CGTCCATCCG	7970	0.0	#DIV/0!	0.0
0	0	1	CGTCGACATC	7971	#DIV/0!		#DIV/0!
-1	0	0	CGTCGAGCTT	7972	0.0	#DIV/0!	0.0
0	0	1	CGTCCTTTT	7973	#DIV/0!	0.0	#DIV/0!
-1	0	0	C GTGAGGTGA	7974	0.0	#DIV/0!	0.0
-1	0	0	CGGCCACCA	7975	#DIV/0!	0.0	#DIV/0!
1	0	0	CGGCCATAG	7976	0.0	#DIV/0!	0.0
0	1	0	CGTGCCTGCT	7977	#DIV/0!	0.0	#DIV/0!
0	1	0	CGTGCCTCT	7978	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CGTGGAAATT	7979	#DIV/0!		#DIV/0!		#DIV/0!		
-1	0	0	CGTTAAATT	7980	0.0		#DIV/0!		0.0		
0	-1	0	CGTTACTCAC	7981	#DIV/0!		0.0		#DIV/0!		
0	0	1	CGTTACTTGG	7982	#DIV/0!		#DIV/0!		#DIV/0!		
-1	-1	0	CGTAGATTTC	7983	#DIV/0!		0.0		#DIV/0!		
0	-1	0	CGTTATTGGC	7984	#DIV/0!		0.0		#DIV/0!		
0	0	1	CGTTCAACTT	7985	#DIV/0!		#DIV/0!		#DIV/0!		
0	0	1	CGTTCACTAC	7986	#DIV/0!		#DIV/0!		#DIV/0!		
-1	1	0	CGTCTTCAC	7987	0.0		#DIV/0!		#DIV/0!		
-1	0	0	CGTTGAGAAA	7988	#DIV/0!		0.0		#DIV/0!		
0	0	0	CGTTGTAAAGA	7989	0.0		#DIV/0!		0.0		
0	0	1	CGTTGTGCCT	7990	#DIV/0!		#DIV/0!		#DIV/0!		
1	0	0	CGTTTCAGTG	7991	0.0		#DIV/0!		0.0		
0	0	0	CGTTTCCATT	7992	0.0		#DIV/0!		0.0		
0	1	1	CGTTTCGGTT	7993	#DIV/0!		#DIV/0!		0.0		
0	0	1	CGTTTCCTCG	7994	#DIV/0!		#DIV/0!		#DIV/0!		
0	0	1	CGTTTAAAAA	7995	#DIV/0!		#DIV/0!		#DIV/0!		
0	1	0	CGTTTTATAA	7996	#DIV/0!		0.0		#DIV/0!		
-1	0	0	CGTTTTATAT	7997	0.0		#DIV/0!		0.0		
0	0	1	CGTTTTCTTT	7998	#DIV/0!		#DIV/0!		#DIV/0!		
0	1	0	CGTTTTTTC	7999	#DIV/0!		0.0		#DIV/0!		
0	-1	0	CTAAAACGGG	8000	#DIV/0!		0.0		#DIV/0!		
0	0	1	CTAAAAGAGG	8001	#DIV/0!		#DIV/0!		#DIV/0!		
0	0	0	CTAAAATGTC	8002	#DIV/0!		0.0		#DIV/0!		
-1	1	0	CTAAAATTTC	8003	0.0		#DIV/0!		0.0		
0	0	1	CTAAAGGGGC	8004	#DIV/0!		#DIV/0!		0.0		
1	1	0	CTAAATCAAA	8005	0.0		#DIV/0!		#DIV/0!		
1	1	0	CTAAATTGCG	8006	0.0		#DIV/0!		0.0		

Table 5, cont.

0	1	0	CTAAGAAACC	8007	#DIV/0!	0.0		#DIV/0!
0	0	1	CTAAGACCGC	8008	#DIV/0!	0.0		#DIV/0!
0	0	1	CTAAGGCCTAC	8009	#DIV/0!	0.0		#DIV/0!
0	0	0	CTAAGGGTTA	8010	#DIV/0!	#DIV/0!		#DIV/0!
0	0	0	CTAAGGGTAT	8011	#DIV/0!	#DIV/0!		#DIV/0!
0	0	1	CTAATAATAC	8012	#DIV/0!	#DIV/0!		#DIV/0!
1	1	0	CTAATTATTAC	8013	0.0	#DIV/0!		#DIV/0!
1	1	0	CTAATCAAAA	8014	0.0	#DIV/0!		0.0
0	1	0	CTAATCACTT	8015	#DIV/0!	0.0		#DIV/0!
1	1	0	CTAATGGGGA	8016	0.0	#DIV/0!		0.0
0	0	1	CTAATTCAAG	8017	#DIV/0!	0.0		#DIV/0!
0	0	1	CTAATTGCAT	8018	#DIV/0!	0.0		#DIV/0!
0	0	1	CTAATTGTCC	8019	#DIV/0!	0.0		#DIV/0!
0	0	1	CTAATTGGCT	8020	#DIV/0!	0.0		#DIV/0!
0	0	1	CTACAACGGG	8021	#DIV/0!	0.0		#DIV/0!
0	0	1	CTACAATCCA	8022	#DIV/0!	0.0		#DIV/0!
0	1	0	CTACATATAT	8023	0.0	#DIV/0!		0.0
0	0	1	CTACATCAA	8024	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CTACATCGAT	8025	0.0	#DIV/0!		0.0
0	1	0	CTACCCCTGG	8026	#DIV/0!	0.0		#DIV/0!
1	1	0	CTACCGCTTA	8027	0.0	#DIV/0!		0.0
-1	0	0	CTACCTTACG	8028	0.0	#DIV/0!		0.0
0	0	1	CTACTGGGCA	8029	#DIV/0!	0.0		#DIV/0!
-1	0	0	CTACTTCCAC	8030	0.0	#DIV/0!		0.0
0	0	1	CTAGAAAAAG	8031	#DIV/0!	0.0		#DIV/0!
0	0	1	CTAGAAAGAG	8032	#DIV/0!	0.0		#DIV/0!
0	0	1	CTAGAAAAGGT	8033	#DIV/0!	#DIV/0!		#DIV/0!
1	1	0	CTAGAAAGACT	8034	0.0	#DIV/0!		0.0

Table 5, cont.

0	1	0	CTAGAAATT	8035	#DIV/0!	0.0	#DIV/0!
0	0	1	CTAGAAATTAC	8036	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CTAGAAATT	8037	0.0	#DIV/0!	0.0
0	0	0	CTGACACTC	8038	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTAGACGGC	8039	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTAGAGACGA	8040	0.0	#DIV/0!	0.0
-1	1	0	CTAGATCGC	8041	0.0	#DIV/0!	0.0
0	0	1	CTGATTGT	8042	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CTAGCAACGC	8043	0.0	#DIV/0!	0.0
0	0	1	CTAGCCACAGC	8044	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTAGCAGTT	8045	#DIV/0!	0.0	#DIV/0!
0	0	0	CTAGCCACTG	8046	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTAGCCGTAT	8047	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CTAGCGATAT	8048	0.0	#DIV/0!	0.0
0	0	1	CTAGCGTTGT	8049	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTAGGGTTA	8050	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTAGTAATAG	8051	0.0	#DIV/0!	0.0
0	1	0	CTAGTGACCT	8052	#DIV/0!	0.0	#DIV/0!
1	0	0	CTAGTGCCCCA	8053	0.0	#DIV/0!	0.0
0	0	1	CTATAAAAT	8054	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTATAAAAGG	8055	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTATAAAAGAA	8056	#DIV/0!	0.0	#DIV/0!
1	1	0	CTATAAAAGAC	8057	0.0	#DIV/0!	0.0
0	0	1	CTATAAAGCT	8058	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTATACAACA	8059	0.0	#DIV/0!	0.0
-1	1	0	CTATATCACT	8060	0.0	#DIV/0!	0.0
0	0	1	CTATATTAC	8061	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTATCAAAGA	8062	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CTATCAGGAG	8063	#DIV/0!	0.0	#DIV/0!
0	1	0	CTATCCGGCA	8064	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTATCGAGTT	8065	0.0	#DIV/0!	0.0
-1	0	0	CTATCTAATT	8066	0.0	#DIV/0!	0.0
1	0	0	CTATCTTACA	8067	0.0	#DIV/0!	0.0
0	1	0	CTATCTTAC	8068	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTATGGGGAT	8069	0.0	#DIV/0!	0.0
0	1	0	CTATGTAACT	8070	#DIV/0!	0.0	#DIV/0!
0	1	0	CTATTAGGAC	8071	#DIV/0!	0.0	#DIV/0!
0	0	1	CTATTATATA	8072	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTATTATATT	8073	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTATTACGA	8074	0.0	#DIV/0!	0.0
-1	0	0	CTATTCCTT	8075	0.0	#DIV/0!	0.0
1	0	0	CTATTCTTAT	8076	0.0	#DIV/0!	0.0
1	0	0	CTATTGATAAA	8077	0.0	#DIV/0!	0.0
0	1	0	CTATTGATAAC	8078	#DIV/0!	0.0	#DIV/0!
0	0	1	CTATTGCTT	8079	#DIV/0!	0.0	#DIV/0!
1	0	0	CTATTCAGA	8080	0.0	#DIV/0!	0.0
0	0	1	CTATTTTGG	8081	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCAAAAAAA	8082	#DIV/0!	0.0	#DIV/0!
0	-1	0	CTCAAAACCG	8083	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCAAATTA	8084	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CTCAAGAGGT	8085	0.0	#DIV/0!	0.0
0	0	1	CTCAAGATTC	8086	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTCAAGATGC	8087	0.0	#DIV/0!	0.0
0	1	0	CTCAATCCAC	8088	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCAATCCTA	8089	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCAATCTAA	8090	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	0	CTCAATTGCA	8091	0.0	#DIV/0!
1	1	0	0	CTCACAAATA	8092	0.0	#DIV/0!
1	-1	0	0	CTCACACAAA	8093	0.0	#DIV/0!
0	0	1	0	CTCACACCTT	8094	#DIV/0!	#DIV/0!
-1	1	0	0	CTCACATTGA	8095	0.0	#DIV/0!
0	0	1	0	CTCACTCAAAT	8096	#DIV/0!	0.0
0	1	0	0	CTCAGCAAAT	8097	#DIV/0!	0.0
-1	1	0	0	CTCAGGCCATT	8098	0.0	#DIV/0!
0	0	0	1	CTCAGCTCGC	8099	#DIV/0!	#DIV/0!
1	1	0	0	CTCAGTATTG	8100	0.0	#DIV/0!
0	0	1	0	CTCATTAATCG	8101	#DIV/0!	0.0
0	0	-1	0	CTCATCAGTA	8102	#DIV/0!	#DIV/0!
0	0	0	1	CTCATCCAAG	8103	#DIV/0!	#DIV/0!
0	0	1	0	CTCATTAACG	8104	#DIV/0!	0.0
-1	1	0	0	CTCATTATCT	8105	0.0	#DIV/0!
0	0	1	0	CTCATTGATA	8106	#DIV/0!	0.0
-1	1	0	0	CTCACTTCTG	8107	0.0	#DIV/0!
1	1	0	0	CTCATTTTAT	8108	0.0	#DIV/0!
0	0	0	1	CTCCAAGAAA	8109	#DIV/0!	#DIV/0!
0	0	1	0	CTCCCACTGAT	8110	#DIV/0!	0.0
0	0	1	0	CTCCCCATCC	8111	#DIV/0!	0.0
-1	1	0	0	CTCCCTCTATT	8112	0.0	#DIV/0!
-1	-1	0	0	CTCCGGTTTT	8113	0.0	#DIV/0!
0	0	1	0	CTCCCTCCATT	8114	#DIV/0!	0.0
0	0	0	1	CTCCCTGTAA	8115	#DIV/0!	#DIV/0!
0	0	1	0	CTCCCTCTAT	8116	#DIV/0!	#DIV/0!
-1	1	0	0	CTGAAAAAG	8117	0.0	#DIV/0!
0	0	1	0	CTGAAACAAC	8118	#DIV/0!	0.0

Table 5, cont.

0	0	1	CTCGATAATC	8119	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTCGATAGAA	8120	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	CTCGATGGAG	8121	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCGATGTCC	8122	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCGATTCTT	8123	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCGAAAGAT	8124	#DIV/0!	0.0	#DIV/0!
0	-1	0	CTCGCATTTA	8125	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGCCCGCAC	8126	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CTGCCCCCTCA	8127	0.0	#DIV/0!	0.0
0	0	1	CTCGGCAATA	8128	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCGGGTCAC	8129	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCGGTAAT	8130	#DIV/0!	0.0	#DIV/0!
1	1	0	CTCGGTAAGT	8131	0.0	#DIV/0!	0.0
0	0	1	CTCGTTCCA	8132	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	CTCTAAAAT	8133	0.0	#DIV/0!	0.0
0	1	0	CTCTAACGAGA	8134	#DIV/0!	0.0	#DIV/0!
0	-1	0	CTCTACCGTC	8135	0.0	#DIV/0!	0.0
1	1	0	CTCTACTGAG	8136	0.0	#DIV/0!	0.0
0	0	1	CTCTACTGGC	8137	#DIV/0!	#DIV/0!	#DIV/0!
1	-1	0	CTCTAGAAA	8138	0.0	#DIV/0!	0.0
0	0	1	CTCTAGAAGA	8139	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCTAGAAGT	8140	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCTAGCAC	8141	#DIV/0!	0.0	#DIV/0!
1	-1	0	CTCTAGCTCC	8142	0.0	#DIV/0!	0.0
0	1	0	CTCTATACCG	8143	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTCATATC	8144	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTCATTC	8145	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTCCGAAT	8146	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CCTCGGGTGT	8147	#DIV/0!	0.0		#DIV/0!
0	0	1	CCTCTATTTC	8148	#DIV/0!	0.0		#DIV/0!
0	0	1	CTCTCTGTCT	8149	#DIV/0!	#DIV/0!		#DIV/0!
-1	0	0	CTCTGAGATA	8150	0.0	#DIV/0!	0.0	
1	1	0	CTCTGATACT	8151	0.0	#DIV/0!	0.0	
1	1	0	CCTGCCATC	8152	0.0	#DIV/0!	0.0	
-1	1	0	CTCTTAATTC	8153	0.0	#DIV/0!	0.0	
0	0	1	CTCTTACTGT	8154	#DIV/0!	#DIV/0!	0.0	
0	0	1	CCTTCGCCCC	8155	#DIV/0!	#DIV/0!	0.0	
0	0	1	CCTTCTTCA	8156	#DIV/0!	0.0		#DIV/0!
0	0	1	CCTTGGGTT	8157	#DIV/0!	#DIV/0!	0.0	
0	0	1	CCTTGTGAA	8158	#DIV/0!	#DIV/0!	#DIV/0!	
-1	1	0	CTCTTAGCA	8159	0.0	#DIV/0!	0.0	
-1	1	0	CCTTTATAC	8160	0.0	#DIV/0!	0.0	
0	0	1	CCTTTCATA	8161	#DIV/0!	0.0		#DIV/0!
-1	1	0	CTCTTCTTAT	8162	0.0	#DIV/0!	0.0	
0	0	1	CCTTTGAAA	8163	#DIV/0!	0.0		#DIV/0!
0	1	0	CCTTGAAT	8164	#DIV/0!	0.0		#DIV/0!
-1	1	0	CCTTTGAA	8165	#DIV/0!	0.0		#DIV/0!
-1	0	0	CTGAAAAAG	8166	#DIV/0!	0.0		#DIV/0!
0	0	1	CTGAAAAAAC	8167	#DIV/0!	#DIV/0!	0.0	
0	1	0	CTGAAAWACAJ	8168	#DIV/0!	0.0		#DIV/0!
0	1	0	CTGAAATAT	8169	#DIV/0!	0.0		#DIV/0!
0	1	0	CTGAAATACT	8170	#DIV/0!	0.0		#DIV/0!
0	0	1	CTGAAATATA	8171	#DIV/0!	#DIV/0!	0.0	
0	1	0	CTGAAATTAT	8172	#DIV/0!	0.0		#DIV/0!
0	0	1	CTGAAATT	8173	#DIV/0!	#DIV/0!	0.0	
0	1	0	CTAACGAAAG	8174	#DIV/0!	0.0		#DIV/0!

Table 5, cont.

0	1	0	CTGAACTACA	8175	#DIV/0!	0.0	
0	0	1	CTGAACTACC	8176	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGAAGCAGG	8177	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGAAGCAGT	8178	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACAATTT	8179	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACCAAAC	8180	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACCCCTT	8181	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACGGAC	8182	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGAGGGGAC	8183	0.0	#DIV/0!	0.0
0	0	1	CTGATCCGTG	8184	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGATGGAAC	8185	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGATTAGA	8186	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGATTCAA	8187	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCAAGTAG	8188	0.0	#DIV/0!	0.0
1	0	0	CTGCACGGTA	8189	0.0	#DIV/0!	0.0
0	0	1	CTGCACTGGC	8190	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCAGCTAA	8191	0.0	#DIV/0!	0.0
0	1	0	CTGCATTAAC	8192	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGCATTACA	8193	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGCCAAGTG	8194	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCCAATGG	8195	0.0	#DIV/0!	0.0
0	0	1	CTGCCAGACA	8196	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CTGCCCGGT	8197	0.0	#DIV/0!	0.0
1	1	0	CTGCCCTCGG	8198	0.0	#DIV/0!	0.0
1	1	0	CTGCCCTGGG	8199	0.0	#DIV/0!	0.0
0	0	1	CTGCGGGTGA	8200	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGCTCTAGC	8201	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGCTCCAC	8202	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	0	CTGCCCTTACA	8203	0.0	#DIV/0!	0.0
-1	0	0	0	CTGGGATTTC	8204	0.0	#DIV/0!	0.0
1	0	0	0	CTGGGGACT	8205	0.0	#DIV/0!	0.0
0	-1	0	0	CTGGGGTAC	8206	#DIV/0!	0.0	#DIV/0!
0	0	1	0	CTGGGTACC	8207	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	CTGGGTCTCT	8208	#DIV/0!	0.0	#DIV/0!
0	0	1	0	CTGCTAACGG	8209	#DIV/0!	0.0	#DIV/0!
0	0	1	0	CTGCTATATT	8210	#DIV/0!	0.0	#DIV/0!
1	1	0	0	CTGCTATGCA	8211	0.0	#DIV/0!	0.0
0	0	1	0	CTGCTCAAAT	8212	#DIV/0!	0.0	#DIV/0!
-1	0	0	0	CTGCTCAGGG	8213	0.0	#DIV/0!	0.0
1	0	0	0	CTGCTCTAGG	8214	0.0	#DIV/0!	0.0
0	0	1	0	CTGCTCTCGG	8215	#DIV/0!	0.0	#DIV/0!
0	0	1	0	CTGCTCTGG	8216	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	CTGCTCTGA	8217	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	CTGCTGGTGC	8218	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	CTGCTTTAAA	8219	0.0	#DIV/0!	0.0
0	0	1	0	CTGCTTCACG	8220	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	0	CTGCTTGCTG	8221	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	CTGCTTTAG	8222	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	0	CTGAAAAAAA	8223	0.0	#DIV/0!	0.0
0	0	1	0	CTGGAATGGA	8224	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	0	CTGACCCAAT	8225	0.0	#DIV/0!	0.0
1	1	0	0	CTGGAGGGAA	8226	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	CTGGATATAA	8227	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	CTGGATGGGA	8228	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	0	CTGGCATAAAC	8229	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	0	CTGGCCAAA	8230	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	CTGCCAGAA	8231	#DIV/0!	0.0	#DIV/0!
0	1	CTGCCCTGGG	8232	#DIV/0!	0.0	#DIV/0!
1	0	CTGGCGAAC	8233	0.0	#DIV/0!	0.0
0	1	CTGGCTCCT	8234	#DIV/0!	0.0	#DIV/0!
1	0	CTGGCTCTGG	8235	0.0	#DIV/0!	0.0
0	0	CTGGGTAGTG	8236	#DIV/0!	0.0	#DIV/0!
0	1	CTGGGTCCC	8237	#DIV/0!	0.0	#DIV/0!
0	0	CTGGGTGGGC	8238	#DIV/0!	#DIV/0!	#DIV/0!
1	0	CTGGTAAAT	8239	0.0	#DIV/0!	0.0
0	1	CTGGTATTGC	8240	0.0	#DIV/0!	0.0
0	0	CTGGTCAAA	8241	#DIV/0!	#DIV/0!	#DIV/0!
0	0	CTGGTGAAGC	8242	#DIV/0!	#DIV/0!	#DIV/0!
1	0	CTGGGTGCTAG	8243	0.0	#DIV/0!	0.0
1	1	CTGGGTGCTCA	8244	0.0	#DIV/0!	0.0
0	0	CTGGTTATT	8245	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CTGGTTGCAC	8246	#DIV/0!	0.0	#DIV/0!
0	0	CTGGTTTATT	8247	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CTGGTTTGG	8248	#DIV/0!	#DIV/0!	#DIV/0!
0	0	CTGTAAGTCT	8249	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CTGTATATCG	8250	#DIV/0!	0.0	#DIV/0!
1	0	CTGTATCGGC	8251	0.0	#DIV/0!	0.0
0	0	CTGTATCTGA	8252	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CTGTATGTTC	8253	#DIV/0!	0.0	#DIV/0!
0	0	CTGTATTTC	8254	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CTGTCCCTGA	8255	#DIV/0!	0.0	#DIV/0!
0	0	CTGTCCCTG	8256	#DIV/0!	#DIV/0!	#DIV/0!
0	1	CTGTCCTGAA	8257	#DIV/0!	0.0	#DIV/0!
0	0	CTGTCGAGGA	8258	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	CTGTCGTTG	8259	0.0	#DIV/0!	0.0
0	1	CTGTCTAACG	8260	0.0	#DIV/0!	0.0
0	-1	CTGTCCTCGA	8261	0.0	#DIV/0!	0.0
-1	0	CTGTCCTCA	8262	0.0	#DIV/0!	0.0
0	0	CTGTGAGCAG	8263	0.0	#DIV/0!	#DIV/0!
0	-1	CTGTGATATC	8264	0.0	#DIV/0!	0.0
0	0	CTGTGCCGCA	8265	0.0	#DIV/0!	#DIV/0!
-1	0	CTGGGTGAA	8266	0.0	#DIV/0!	0.0
0	0	CTGTGTTTT	8267	0.0	#DIV/0!	0.0
0	1	CTGTTACTAG	8268	0.0	#DIV/0!	0.0
0	-1	CTGTTAGTAT	8269	0.0	#DIV/0!	#DIV/0!
0	0	CTGGGGTCG	8270	0.0	#DIV/0!	0.0
0	0	CTGTTGTTGC	8271	0.0	#DIV/0!	#DIV/0!
0	0	CTGTTGGAG	8272	0.0	#DIV/0!	0.0
0	1	CTGTTTCTT	8273	0.0	#DIV/0!	#DIV/0!
0	-1	CTGTTTGCA	8274	0.0	#DIV/0!	0.0
1	0	CTTAATT	8275	0.0	#DIV/0!	#DIV/0!
0	1	CTTAAACCGA	8276	0.0	#DIV/0!	#DIV/0!
0	-1	CTTAAATCTC	8277	0.0	#DIV/0!	#DIV/0!
1	0	CTTAAACACTC	8278	0.0	#DIV/0!	0.0
0	1	CTTAAACCATT	8279	0.0	#DIV/0!	#DIV/0!
-1	0	CTTAACTAAA	8280	0.0	#DIV/0!	0.0
0	0	CTTAAGACAT	8281	0.0	#DIV/0!	#DIV/0!
0	1	CTTAAGCAGG	8282	0.0	#DIV/0!	#DIV/0!
-1	0	CTTAAGCTGG	8283	0.0	#DIV/0!	0.0
0	1	CTTACATTGA	8284	0.0	#DIV/0!	0.0
1	0	CTTACCCAGTT	8285	0.0	#DIV/0!	#DIV/0!
0	0	CTTACTCTTC	8286	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	CTTACTTAGT	8287	#DIV/0!	0.0
0	0	1	CTTAGCCAG	8288	#DIV/0!	#DIV/0!
0	1	0	CTTATAGGCA	8289	#DIV/0!	0.0
1	1	0	CTTATATAGA	8290	0.0	#DIV/0!
0	1	0	CTTATGGAGT	8291	#DIV/0!	0.0
0	0	1	CTTATTATT	8292	#DIV/0!	#DIV/0!
0	0	0	CTTATTTCAA	8293	0.0	#DIV/0!
1	1	0	CTTCAAAAAA	8294	0.0	#DIV/0!
0	1	0	CTTCAAACCA	8295	#DIV/0!	#DIV/0!
0	0	1	CTTCAAACAC	8296	#DIV/0!	#DIV/0!
0	1	0	CTTCAAACCTC	8297	#DIV/0!	0.0
0	0	1	CTTCAAATCC	8298	#DIV/0!	#DIV/0!
0	0	0	CTTCACATTT	8299	#DIV/0!	#DIV/0!
0	0	1	CTTCACCTGA	8300	#DIV/0!	#DIV/0!
0	0	0	CTTCAGTCCA	8301	#DIV/0!	#DIV/0!
0	0	1	CTTCAGTCGT	8302	#DIV/0!	0.0
0	0	0	CTTCATTAAC	8303	#DIV/0!	#DIV/0!
0	0	1	CTTCCAGCTT	8304	#DIV/0!	#DIV/0!
0	1	0	CTTCCAGGT	8305	#DIV/0!	0.0
0	1	0	CTTCCGGGGA	8306	#DIV/0!	#DIV/0!
0	1	0	CTTCCCTTAGG	8307	#DIV/0!	0.0
0	0	1	CTTCGGAAATT	8308	#DIV/0!	#DIV/0!
0	1	0	CTTCGTCTTG	8309	#DIV/0!	0.0
0	0	1	CTTCTACTTT	8310	#DIV/0!	0.0
0	0	1	CTTCTCAAGT	8311	#DIV/0!	#DIV/0!
0	1	0	CTTCTCGGCAG	8312	#DIV/0!	0.0
0	1	0	CTTCTCGTTA	8313	#DIV/0!	#DIV/0!
0	0	1	CTTCTCTGGG	8314	#DIV/0!	0.0

Table 5, cont.

0	1	0	CTTCTGATGT	8315	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCTGTTCA	8316	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCCTTATAT	8317	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCCTGGCG	8318	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGAAAGAG	8319	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTTGAAATACA	8320	0.0	#DIV/0!	0.0
0	0	1	CTTGAGAACC	8321	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CTTGAGAACG	8322	0.0	#DIV/0!	0.0
-1	-1	0	CTTGAGATAT	8323	0.0	#DIV/0!	0.0
-1	0	0	CTTGAGATTGC	8324	0.0	#DIV/0!	0.0
0	0	1	CTTGATAATC	8325	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGATGAAT	8326	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTTGATGTTT	8327	0.0	#DIV/0!	0.0
0	0	1	CTTGATTATG	8328	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGCATCTC	8329	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTGCACAG	8330	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTTGCTATT	8331	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGCTCCAA	8332	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTGCTGGCA	8333	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTGGAGCAG	8334	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CTTGGCATT	8335	0.0	#DIV/0!	0.0
0	0	1	CTTGGCTATT	8336	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	CTTGGGAAGC	8337	0.0	#DIV/0!	0.0
0	1	0	CTTGGGGTA	8338	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTGTATGG	8339	0.0	#DIV/0!	0.0
1	0	0	CTTGTATGGA	8340	0.0	#DIV/0!	0.0
0	0	1	CTTGTATGGT	8341	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTGTATGTT	8342	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CTTGTATTAC	8343	0.0	#DIV/0!	0.0
-1	0	0	CTTGTCTGTC	8344	0.0	#DIV/0!	0.0
0	1	0	CTTGGTGGCTT	8345	#DIV/0!	0.0	#DIV/0!
1	1	0	CTTTAAATTC	8346	0.0	#DIV/0!	0.0
-1	0	0	CTTTACACTC	8347	0.0	#DIV/0!	0.0
0	-1	0	CTTACACTT	8348	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTTATAAAA	8349	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTTATAAAG	8350	0.0	#DIV/0!	0.0
-1	1	0	CTTTATAACG	8351	0.0	#DIV/0!	0.0
0	0	0	CTTICATATA	8352	#DIV/0!	0.0	#DIV/0!
-1	0	0	CTTTCATTGA	8353	0.0	#DIV/0!	0.0
0	0	1	CTTTCACAAAC	8354	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CTTTCACATC	8355	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTTCGACC	8356	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTTCGGAAA	8357	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CTTTCGTAAA	8358	0.0	#DIV/0!	0.0
1	1	0	CTTTCCTCTG	8359	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTTGAAAAA	8360	0.0	#DIV/0!	0.0
-1	0	0	CTTTGAAAGC	8361	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTTGAAATG	8362	0.0	#DIV/0!	0.0
-1	0	0	CTTTGAACGA	8363	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTTGCCAAA	8364	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CTTGGCCAC	8365	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGGCTGCT	8366	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGGCTTAC	8367	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTGGAAACA	8368	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	CTTGTATAA	8369	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGTACAA	8370	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	C TT T G T A T A T	8371	0.0	#DIV/0!		0.0
0	1	0	C TT T G T A T C T	8372	0.0	#DIV/0!		#DIV/0!
0	-1	0	C TT T G T C C	8373	0.0	#DIV/0!		#DIV/0!
0	-1	0	C TT T G T G A C T	8374	0.0	#DIV/0!		#DIV/0!
0	1	0	C TT T T A A A A	8375	0.0	#DIV/0!		#DIV/0!
0	-1	0	C TT T T A A C A C	8376	0.0	#DIV/0!		#DIV/0!
0	1	0	C TT T T A A G G A	8377	0.0	#DIV/0!		#DIV/0!
1	0	0	C TT T T A G A C T	8378	0.0	#DIV/0!		#DIV/0!
1	0	0	C TT T T A G G A A	8379	0.0	#DIV/0!		0.0
0	-1	0	C TT T T C A G G T	8380	0.0	#DIV/0!		#DIV/0!
0	-1	0	C TT T T C A T A C	8381	0.0	#DIV/0!		#DIV/0!
0	1	0	C TT T T C T A G A	8382	0.0	#DIV/0!		#DIV/0!
-1	0	0	C TT T T C T C C	8383	0.0	#DIV/0!		0.0
0	-1	0	C TT T T G A A G A	8384	0.0	#DIV/0!		#DIV/0!
-1	0	0	C TT T T G T C T	8385	0.0	#DIV/0!		0.0
0	-1	0	C TT T T I C A T A	8386	0.0	#DIV/0!		#DIV/0!
0	1	0	C T T T T T C T C G	8387	0.0	#DIV/0!		#DIV/0!
0	1	0	C T T T T T G G A A	8388	0.0	#DIV/0!		#DIV/0!
-1	0	0	C T T T T T T A T T	8389	0.0	#DIV/0!		0.0
-1	0	0	G A A A A A W A G A	8390	0.0	#DIV/0!		0.0
-1	0	0	G A A A A A C A T	8391	0.0	#DIV/0!		0.0
1	0	0	G A A A A A C C A	8392	0.0	#DIV/0!		0.0
0	1	0	G A A A A A C T T	8393	0.0	#DIV/0!		#DIV/0!
-1	0	0	G A A A A A G T T	8394	0.0	#DIV/0!		0.0
0	0	1	G A A A A A C A T T	8395	#DIV/0!	#DIV/0!		#DIV/0!
1	0	0	G A A A A A C C T C	8396	0.0	#DIV/0!		0.0
0	1	0	G A A A A A G A C G	8397	#DIV/0!	0.0		#DIV/0!
0	-1	0	G A A A A A T T G A	8398	#DIV/0!	0.0		#DIV/0!

Table 5, cont.

0	0	1	GAAAAATTGG	8399	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAAAACACCT	8400	#DIV/0!		#DIV/0!		#DIV/0!
-1	0	0	GAAAACACTA	8401	0.0		#DIV/0!		0.0
0	-1	0	GAAAACACTC	8402	#DIV/0!		0.0		#DIV/0!
0	1	0	GAAAACATCC	8403	#DIV/0!		0.0		#DIV/0!
0	0	1	GAAAACATTA	8404	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAAAACATTI	8405	#DIV/0!		0.0		#DIV/0!
0	-1	0	GAAAACCATC	8406	#DIV/0!		0.0		#DIV/0!
0	0	0	GAAAACGTAT	8407	#DIV/0!		#DIV/0!		#DIV/0!
1	1	0	GAAAACGTGA	8408	0.0		#DIV/0!		0.0
0	0	1	GAAAACGTGT	8409	#DIV/0!		0.0		#DIV/0!
1	1	0	GAAAACTTGA	8410	0.0		#DIV/0!		0.0
0	0	-1	GAAAACTTG	8411	#DIV/0!		0.0		#DIV/0!
0	0	0	GAAAAGAGCA	8412	#DIV/0!		#DIV/0!		#DIV/0!
0	0	0	GAAAAGATT	8413	#DIV/0!		#DIV/0!		#DIV/0!
0	1	0	GAAAAGCTAG	8414	#DIV/0!		0.0		#DIV/0!
0	0	0	GAAAAGGCC	8415	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAAAAGGGCG	8416	#DIV/0!		0.0		#DIV/0!
1	1	0	GAAAAGGTTA	8417	0.0		#DIV/0!		0.0
0	0	0	GAAAAGTACC	8418	#DIV/0!		#DIV/0!		#DIV/0!
0	0	-1	GAAAATACAA	8419	#DIV/0!		0.0		#DIV/0!
0	0	1	GAAAATGACG	8420	#DIV/0!		#DIV/0!		#DIV/0!
0	0	0	GAAAATGCCA	8421	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAAAATGCC	8422	#DIV/0!		0.0		#DIV/0!
0	0	1	GAAAATGTAA	8423	#DIV/0!		0.0		#DIV/0!
0	0	1	GAAAATTACT	8424	#DIV/0!		0.0		#DIV/0!
1	1	0	GAAAATTICA	8425	0.0		#DIV/0!		0.0
1	1	0	GAAAACAAAC	8426	0.0		#DIV/0!		0.0

Table 5, cont.

1	0	0	GAAACAACCTC	8427	0.0	#DIV/0!	0.0
0	1	0	GAACAAAGGG	8428	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAACAGTGT	8429	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAACCATAT	8430	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAAACCCAAA	8431	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAACGGGTG	8432	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAACCTGGA	8433	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAACTCGCC	8434	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAACTTTT	8435	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGAAAAAA	8436	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAGAAGCG	8437	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAGAAGCT	8438	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAAGACAGA	8439	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAGAGCTG	8440	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAAGAGTTT	8441	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GAAAGATTGC	8442	0.0	#DIV/0!	0.0
-1	0	0	GAAAGATTTT	8443	0.0	#DIV/0!	0.0
0	1	0	GAAAGCATCT	8444	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAGCCGGT	8445	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GAAAGCCCTT	8446	0.0	#DIV/0!	0.0
1	0	0	GAAAGCTTC	8447	0.0	#DIV/0!	0.0
0	1	0	GAAAGTACAA	8448	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAAAGTTAGA	8449	0.0	#DIV/0!	0.0
0	-1	0	GAAAGTTGG	8450	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAGTTAA	8451	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATAAGAA	8452	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATATGTA	8453	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCAACA	8454	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GAAATCAGTG	8455	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCCAAT	8456	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATCGGGT	8457	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCTGCT	8458	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATCTGGG	8459	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCTTCG	8460	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATGACAT	8461	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATGGAAT	8462	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAATGGAGG	8463	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATGGTAC	8464	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAATTAGGG	8465	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATTGATG	8466	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACAAAAACA	8467	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACAAAGTT	8468	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACAAAGGAA	8469	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACAATGTT	8470	0.0	#DIV/0!	0.0
1	1	0	GAACAATTAT	8471	0.0	#DIV/0!	0.0
0	1	0	GAACACATCT	8472	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACACCTCT	8473	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACACTCCT	8474	0.0	#DIV/0!	0.0
0	0	1	GAACACTGCT	8475	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACACTTAG	8476	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACACTTCA	8477	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAACACTTCC	8478	0.0	#DIV/0!	0.0
1	1	0	GAACACTTGT	8479	0.0	#DIV/0!	0.0
0	0	1	GAACACTTT	8480	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACAGACCA	8481	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACAGGTAG	8482	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	GAACAGTAGT	8483	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACAGTGC	8484	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACATCT	8485	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACATTCA	8486	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACATTTCT	8487	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAACCGAGTC	8488	0.0	#DIV/0!	0.0
0	0	1	GAACCCAATG	8489	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GAACCGATT	8490	0.0	#DIV/0!	0.0
0	0	1	GAACCGCTAA	8491	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GAACCGGGTGA	8492	0.0	#DIV/0!	0.0
0	0	1	GAACCTGCCA	8493	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACCTGCCG	8494	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAACGACCTG	8495	0.0	#DIV/0!	0.0
0	0	1	GAACGGGACT	8496	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACGGGGTT	8497	#DIV/0!	0.0	#DIV/0!
0	-1	0	GAACGATAA	8498	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACGCATAC	8499	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACGGCATCT	8500	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAACGGCTTA	8501	0.0	#DIV/0!	0.0
1	0	0	GAACGGGACA	8502	0.0	#DIV/0!	0.0
-1	0	0	GAACGGGAGAC	8503	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACGGGCTCT	8504	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACGGGATA	8505	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAACGTGAAAC	8506	0.0	#DIV/0!	0.0
0	-1	0	GAACCTAAACT	8507	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACCTCCAGA	8508	0.0	#DIV/0!	0.0
0	0	1	GAACGTGATAG	8509	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACCTGGTGC	8510	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GAACCTGCCG	8511	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACCTTACA	8512	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGAAAAAA	8513	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGAAATCG	8514	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAAGAAGAAC	8515	0.0	#DIV/0!	0.0
-1	0	0	GAAGAAAGAG	8516	0.0	#DIV/0!	0.0
-1	0	0	GAAGAAAGAGA	8517	0.0	#DIV/0!	0.0
-1	0	0	GAAGAAATTGA	8518	0.0	#DIV/0!	0.0
0	-1	0	GAAGAAATTGC	8519	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAAGAAATTGG	8520	0.0	#DIV/0!	0.0
1	1	0	GAAGACAGAG	8521	0.0	#DIV/0!	0.0
0	0	-1	GAAGACATCT	8522	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAAGACCTGC	8523	0.0	#DIV/0!	0.0
0	0	1	GAAGACGGTT	8524	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAGACGTGG	8525	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGACTGGT	8526	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGACTGTC	8527	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAAGAGAGTG	8528	0.0	#DIV/0!	0.0
0	0	0	GAAGAGATCG	8529	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGAGCCAG	8530	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGAGCGGT	8531	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GAAGAGTAAA	8532	0.0	#DIV/0!	0.0
0	1	0	GAAGATATCT	8533	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAGATATTG	8534	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGATCCTT	8535	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGATTAGC	8536	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAGCAGCAC	8537	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAGCCATCG	8538	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GAAGCCCTCC	8539	0.0	#DIV/0!	0.0
-1	0	0	GAAGCCGTAA	8540	0.0	#DIV/0!	0.0
0	1	0	GAAGCCTGAG	8541	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGCTATCA	8542	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGCTTTG	8543	#DIV/0!	0.0	#DIV/0!
0	0	-1	GAAGGAAGC	8544	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAGGAAGCA	8545	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAGGACGTG	8546	0.0	#DIV/0!	0.0
0	0	1	GAAGGATGGG	8547	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGGATTAG	8548	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGGGATTA	8549	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGGGATTG	8550	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAAGGGTATG	8551	0.0	#DIV/0!	0.0
0	0	1	GAAGGGTTC	8552	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGTACAAT	8553	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAAGTACAGG	8554	0.0	#DIV/0!	0.0
0	0	1	GAAGTAGAGG	8555	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGTAGCAC	8556	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGTATTAG	8557	0.0	#DIV/0!	0.0
1	0	0	GAAGTCTGGCTT	8558	0.0	#DIV/0!	0.0
0	0	1	GAAGTGTTTT	8559	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAAGTTATA	8560	0.0	#DIV/0!	0.0
0	0	1	GAAGTTGTAA	8561	#DIV/0!	0.0	#DIV/0!
1	1	0	GAATAAAAGT	8562	0.0	#DIV/0!	0.0
0	0	1	GAATAAGAAT	8563	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAATAATAAG	8564	0.0	#DIV/0!	0.0
0	0	1	GAATAATTG	8565	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATACAGCA	8566	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	GAATACCCATA	8567	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATACGAAT	8568	0.0	#DIV/0!	0.0
0	1	0	GAATACTAAA	8569	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATACTACT	8570	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATACTAGG	8571	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATACTTAA	8572	0.0	#DIV/0!	0.0
0	0	1	GAATACTTCT	8573	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATAGGGAT	8574	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATAGGGCT	8575	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATATATTAA	8576	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAATATGGAC	8577	0.0	#DIV/0!	0.0
0	1	0	GAATTCAAAAA	8578	#DIV/0!	0.0	#DIV/0!
0	1	0	GAATCCAAATA	8579	#DIV/0!	0.0	#DIV/0!
1	1	0	GAATCGGCAT	8580	0.0	#DIV/0!	0.0
0	0	1	GAATCTCTCA	8581	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATCTGGAA	8582	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATCTGGTA	8583	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATCTTGAA	8584	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATGAATT	8585	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATGATAGA	8586	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATGCCAAA	8587	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAATGCCACAA	8588	0.0	#DIV/0!	0.0
1	1	0	GAATGCTTAC	8589	0.0	#DIV/0!	0.0
0	1	0	GAACTGAAACC	8590	#DIV/0!	0.0	#DIV/0!
0	1	0	GAATGGAGAA	8591	#DIV/0!	0.0	#DIV/0!
0	1	0	GAATGGGACG	8592	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATGGGTTA	8593	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAATGGGTTC	8594	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GAATGTGATG	8595	0.0	#DIV/0!	0.0
0	1	0	GAATTACCA	8596	0.0	#DIV/0!	0.0
1	1	0	GAATTACTTA	8597	0.0	#DIV/0!	0.0
0	0	1	GAATTAGGGG	8598	0.0	#DIV/0!	#DIV/0!
0	0	1	GAATTCCCTAT	8599	0.0	#DIV/0!	#DIV/0!
1	0	0	GAATTGGTAA	8600	0.0	#DIV/0!	#DIV/0!
1	0	0	GAATTGACAG	8601	0.0	#DIV/0!	0.0
1	0	0	GAATTGACGG	8602	0.0	#DIV/0!	0.0
0	0	1	GAATTGAGAG	8603	0.0	#DIV/0!	0.0
0	0	1	GAATTGAGTT	8604	0.0	#DIV/0!	#DIV/0!
0	1	0	GAATTGAAA	8605	0.0	#DIV/0!	#DIV/0!
0	0	1	GAATTTGCTT	8606	0.0	#DIV/0!	#DIV/0!
1	0	0	GACAACCTACT	8607	0.0	#DIV/0!	#DIV/0!
-1	0	0	GACAACGTGCT	8608	0.0	#DIV/0!	0.0
0	1	0	GACAAGAAAA	8609	0.0	#DIV/0!	0.0
1	0	0	GACAAGGGAGT	8610	0.0	#DIV/0!	#DIV/0!
0	0	1	GACAAGTTGG	8611	0.0	#DIV/0!	0.0
0	0	1	GACAATGGTA	8612	0.0	#DIV/0!	#DIV/0!
0	0	1	GACACAATAC	8613	0.0	#DIV/0!	#DIV/0!
0	1	0	GACACAGACC	8614	0.0	#DIV/0!	#DIV/0!
0	0	1	GACACAGACG	8615	0.0	#DIV/0!	#DIV/0!
-1	0	0	GACACCCACC	8616	0.0	#DIV/0!	#DIV/0!
0	1	0	GACACCGTGA	8617	0.0	#DIV/0!	0.0
-1	0	0	GACAGAAAC	8618	0.0	#DIV/0!	0.0
0	1	0	GACAGAACTT	8619	0.0	#DIV/0!	#DIV/0!
0	0	1	GACAGAAGGT	8620	0.0	#DIV/0!	#DIV/0!
1	0	0	GACAGATCTC	8621	0.0	#DIV/0!	0.0
-1	0	0	GACAGATCTT	8622	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	GACAGCCAGG	8623	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACAGGCTCA	8624	0.0	#DIV/0!	0.0
0	1	0	GACAGGCTTG	8625	#DIV/0!	0.0	#DIV/0!
1	0	0	GACAGGTCC	8626	0.0	#DIV/0!	0.0
1	0	0	GACAGTGATC	8627	0.0	#DIV/0!	0.0
0	1	0	GACATACGTG	8628	#DIV/0!	0.0	#DIV/0!
0	1	0	GACATATCAT	8629	#DIV/0!	0.0	#DIV/0!
1	0	0	GACATCAAGG	8630	0.0	#DIV/0!	0.0
0	0	1	GACATCGATA	8631	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACATCTCGA	8632	#DIV/0!	0.0	#DIV/0!
1	0	0	GACATCTTAG	8633	0.0	#DIV/0!	0.0
0	0	1	GACATTACTC	8634	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACATTGGCC	8635	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACATTTCG	8636	#DIV/0!	0.0	#DIV/0!
1	0	0	GACATTTGA	8637	0.0	#DIV/0!	0.0
0	1	0	GACCAAGAAC	8638	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCACTATT	8639	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCATAAAC	8640	#DIV/0!	0.0	#DIV/0!
0	0	1	GACCATTCTC	8641	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACCATTAA	8642	0.0	#DIV/0!	0.0
1	0	0	GACCATTGTA	8643	0.0	#DIV/0!	0.0
0	1	0	GACCACAACG	8644	#DIV/0!	0.0	#DIV/0!
1	0	0	GACCAGATG	8645	0.0	#DIV/0!	0.0
0	0	1	GACCAGGGC	8646	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACCATCAG	8647	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCCCCCTT	8648	#DIV/0!	0.0	#DIV/0!
1	0	0	GACCCCTCCC	8649	0.0	#DIV/0!	0.0
1	0	0	GACGCCACCA	8650	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	0	1	GACCGCTAAG	8651	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	GACGGGCCAG	8652	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	GACCTAACGT	8653	0.0	#DIV/0!	0.0
0	0	1	0	GACCTACTCC	8654	#DIV/0!	0.0	#DIV/0!
1	0	0	0	GACCTCACTG	8655	0.0	#DIV/0!	0.0
0	0	-1	0	GACCTCGGAG	8656	#DIV/0!	0.0	#DIV/0!
0	0	1	0	GACCTGAAA	8657	#DIV/0!	0.0	#DIV/0!
0	0	-1	0	GACCTGCGTA	8658	#DIV/0!	0.0	#DIV/0!
0	0	1	0	GACCTTGCNA	8659	#DIV/0!	0.0	#DIV/0!
0	0	-1	0	GACGAAAGGC	8660	#DIV/0!	0.0	#DIV/0!
0	0	1	0	GACGAAAGAA	8661	#DIV/0!	0.0	#DIV/0!
0	0	0	1	GACGACAAGC	8662	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	0	GACGACCTGC	8663	#DIV/0!	0.0	#DIV/0!
0	0	0	1	GACGAGCAC	8664	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	GACGAGGATG	8665	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	0	GACGATAAA	8666	#DIV/0!	0.0	#DIV/0!
0	0	0	1	GACGATCTTG	8667	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	GACGATGCAA	8668	0.0	#DIV/0!	0.0
0	0	1	0	GACGCACTT	8669	#DIV/0!	0.0	#DIV/0!
1	0	0	0	GACGCCATCA	8670	0.0	#DIV/0!	0.0
1	0	0	0	GACGCTAATA	8671	0.0	#DIV/0!	0.0
0	0	0	1	GACGCTTGGG	8672	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	GACGGAATAA	8673	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	GACGGGACCAT	8674	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	GACGTAGAAA	8675	0.0	#DIV/0!	0.0
0	0	1	0	GACGTAGAAC	8676	#DIV/0!	0.0	#DIV/0!
0	0	1	0	GACGTCCATC	8677	#DIV/0!	0.0	#DIV/0!
0	0	1	0	GACGTGAAGG	8678	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	GACGTGGAAA	8679	0.0	#DIV/0!	0.0
0	1	0	GACGTTTAAA	8680	#DIV/0!	0.0	#DIV/0!
-1	0	0	GACGTTTACT	8681	0.0	#DIV/0!	0.0
0	-1	0	GACTAAATT	8682	#DIV/0!	0.0	#DIV/0!
0	1	0	GACTAAGCTA	8683	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATCACCTC	8684	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	GAATGACAA	8685	#DIV/0!	0.0	#DIV/0!
0	0	-1	GAATGAGCG	8686	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATAGTTT	8687	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATATCCG	8688	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATATTAC	8689	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATCCGGGA	8690	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GAATCTCAAG	8691	0.0	#DIV/0!	0.0
0	0	1	GAATCTTATG	8692	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAATCTTCGC	8693	0.0	#DIV/0!	0.0
-1	0	0	GAATCTTCTC	8694	0.0	#DIV/0!	0.0
0	0	0	GAATGACTCA	8695	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATGCCAAA	8696	#DIV/0!	0.0	#DIV/0!
-1	0	0	GAATGCTTGT	8697	0.0	#DIV/0!	0.0
1	0	0	GAATGTGCTG	8698	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATTACGTA	8699	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATTATTGC	8700	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATTCATA	8701	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATTCGAGA	8702	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATCTTGT	8703	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATTTATC	8704	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATTTTGA	8705	0.0	#DIV/0!	0.0
0	0	1	GACTTTACTT	8706	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	GACTTTGAA	8707	#DIV/0!		#DIV/0!	
1	0	GACTTTTCA	8708	0.0	#DIV/0!	0.0	
0	1	GAGAAAAACAA	8709	#DIV/0!	0.0	#DIV/0!	
0	1	GAGAAAACCG	8710	#DIV/0!	0.0	#DIV/0!	
0	0	GAGAAAGACA	8711	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	GAGAAATTGA	8712	#DIV/0!	0.0	#DIV/0!	
0	0	GAGAAATTGG	8713	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	GAGAACAGAA	8714	#DIV/0!	0.0	#DIV/0!	
0	0	GAGAACATCT	8715	#DIV/0!	0.0	#DIV/0!	
1	0	GAGAACGTAA	8716	0.0	#DIV/0!	0.0	
0	1	GAGAAGAACCC	8717	#DIV/0!	0.0	#DIV/0!	
0	1	GAGAAGAGCT	8718	#DIV/0!	0.0	#DIV/0!	
0	0	GAGAAGGCCAG	8719	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	GAGAAGTATT	8720	#DIV/0!	0.0	#DIV/0!	
0	1	GAGAATGCGT	8721	#DIV/0!	0.0	#DIV/0!	
0	0	GAGACAACCTG	8722	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	GAGACACCTT	8723	0.0	#DIV/0!	0.0	
0	0	GAGACACTCA	8724	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	GAGACCATTG	8725	#DIV/0!	0.0	#DIV/0!	
0	0	GAGACCGATA	8726	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	GAGACTGGTT	8727	#DIV/0!	0.0	#DIV/0!	
0	0	GAGACTTGTCT	8728	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	GAGAGAACCC	8729	#DIV/0!	0.0	#DIV/0!	
1	0	GAGAGAAGGC	8730	0.0	#DIV/0!	0.0	
1	0	GAGAGAGATT	8731	0.0	#DIV/0!	0.0	
-1	0	GAGAGAGTGG	8732	0.0	#DIV/0!	0.0	
0	1	GAGAGATGAT	8733	#DIV/0!	0.0	#DIV/0!	
0	1	GAGGCAAAA	8734	#DIV/0!	0.0	#DIV/0!	

Table 5, cont.

1	0	0	0	GAGAGCAAAT	8735	0.0	#DIV/0!	0.0
0	0	1	0	GAGAGCAGAA	8736	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	0	GAGGCCACC	8737	0.0	#DIV/0!	0.0
0	1	0	0	GAGGGGCAA	8738	#DIV/0!	0.0	#DIV/0!
1	0	0	0	GAGAGCTCAC	8739	0.0	#DIV/0!	0.0
1	-1	0	0	GAGAGGAGCC	8740	0.0	#DIV/0!	0.0
-1	1	0	0	GAGAGTTGGG	8741	0.0	#DIV/0!	0.0
1	1	0	0	GAGATGCTAT	8742	0.0	#DIV/0!	0.0
0	0	1	0	GAGATTAGTC	8743	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	GAGCAAAAAA	8744	0.0	#DIV/0!	0.0
0	0	1	0	GAGCAAAAGT	8745	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	GAGCAAATAT	8746	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	1	GAGCAATCCG	8747	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	GAGCAGTTGT	8748	0.0	#DIV/0!	0.0
-1	0	0	0	GAGCATACGG	8749	0.0	#DIV/0!	0.0
-1	0	0	0	GAGCCAATTI	8750	0.0	#DIV/0!	0.0
1	0	0	0	GAGCCAGCTT	8751	0.0	#DIV/0!	0.0
0	0	1	0	GAGCCCTGGC	8752	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	0	GAGCCCTGTT	8753	#DIV/0!	0.0	#DIV/0!
-1	0	0	0	GAGCCGTCCA	8754	0.0	#DIV/0!	0.0
0	0	1	0	GAGCCGTTGT	8755	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	0	GAGCGAAGTA	8756	0.0	#DIV/0!	0.0
0	-1	0	0	GAGGGACATC	8757	#DIV/0!	0.0	#DIV/0!
0	0	0	1	GAGGCATTA	8758	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	0	GAGGCGATG	8759	0.0	#DIV/0!	0.0
0	1	0	0	GAGGGTATAA	8760	#DIV/0!	0.0	#DIV/0!
1	0	0	0	GAGGGTTGGT	8761	0.0	#DIV/0!	0.0
0	0	0	1	GAGCTAATGA	8762	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	GAGCTAGATG	8763	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGCTCCACC	8764	#DIV/0!		#DIV/0!		#DIV/0!
1	0	0	GAGCTCTGTA	8765	0.0		#DIV/0!		0.0
0	0	1	GAGCTTATAA	8766	#DIV/0!		#DIV/0!		#DIV/0!
0	1	0	GAGCTTGAGA	8767	#DIV/0!		#DIV/0!		0.0
0	1	0	GAGGAAAGTA	8768	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGAAAGTT	8769	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGAACAGG	8770	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGAATGTA	8771	#DIV/0!		#DIV/0!		#DIV/0!
-1	1	0	GAGGAATTCA	8772	0.0		#DIV/0!		0.0
-1	1	0	GAGGACACCA	8773	0.0		#DIV/0!		0.0
-1	1	0	GAGGACGCC	8774	0.0		#DIV/0!		0.0
0	0	1	GAGGACGGCT	8775	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGACGTGG	8776	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGAGATT	8777	#DIV/0!		#DIV/0!		#DIV/0!
0	1	0	GAGGAGGGCGG	8778	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGAGGTTG	8779	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGAGTTGC	8780	#DIV/0!		#DIV/0!		#DIV/0!
-1	1	0	GAGGATAAAC	8781	0.0		#DIV/0!		0.0
0	0	1	GAGGATATCG	8782	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	GAGGATGAGG	8783	#DIV/0!		#DIV/0!		#DIV/0!
0	1	0	GAGGATGTGC	8784	#DIV/0!		#DIV/0!		0.0
-1	0	0	GAGGCAAAT	8785	0.0		#DIV/0!		0.0
0	0	1	GAGGCACCTG	8786	#DIV/0!		#DIV/0!		#DIV/0!
-1	0	0	GAGGCGGGACA	8787	0.0		#DIV/0!		0.0
0	1	0	GAGGCGTTT	8788	#DIV/0!		0.0		#DIV/0!
0	0	1	GAGGCTGATC	8789	#DIV/0!		#DIV/0!		#DIV/0!
0	1	0	GAGGAAATA	8790	#DIV/0!		0.0		#DIV/0!

Table 5, cont.

0	0	1	GAGGGATAAC	8791	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGATTCA	8792	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGATTCA	8793	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGCTCG	8794	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGCTCG	8795	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGGAATA	8796	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGGGTTCG	8797	0.0	#DIV/0!	#DIV/0!
1	0	0	GAGGGCTCG	8798	0.0	#DIV/0!	0.0
-1	0	0	GAGGGGGGG	8799	0.0	#DIV/0!	0.0
0	0	1	GAGGGGGGG	8800	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGTAAAGT	8801	0.0	#DIV/0!	0.0
1	0	0	GAGGTAGACA	8802	0.0	#DIV/0!	#DIV/0!
-1	0	0	GAGGTAGTGA	8803	#DIV/0!	#DIV/0!	0.0
0	0	1	GAGGTGTTA	8804	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGTAAAAG	8805	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGTAAACTT	8806	0.0	#DIV/0!	#DIV/0!
1	0	0	GAGTACAATA	8807	#DIV/0!	0.0	0.0
0	0	1	GAGTACCAAC	8808	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGTACTCTT	8809	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGTAGGGCG	8810	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGTATAATA	8811	0.0	#DIV/0!	0.0
-1	0	0	GAGTCATAG	8812	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGTCACAAT	8813	0.0	#DIV/0!	0.0
1	1	0	GAGTCGGCTGA	8814	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GAGTCGGCTGA	8815	0.0	#DIV/0!	0.0
-1	0	0	GAGTGGGATA	8816	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGTGGGATA	8817	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGTGTCCAC	8818	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	GAGTTATAAC	8819	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGTTGGGCC	8820	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GAGTTGGAAT	8821	0.0	0.0	0.0
0	0	1	GAGTTTATGA	8822	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATAAAAAAA	8823	#DIV/0!	0.0	#DIV/0!
1	0	0	GATAAAATAC	8824	0.0	#DIV/0!	0.0
0	1	0	GATAAAGAAC	8825	#DIV/0!	0.0	#DIV/0!
0	0	1	GATAAAATACG	8826	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATAAAATGCC	8827	#DIV/0!	0.0	#DIV/0!
0	0	1	GATAACAAACA	8828	#DIV/0!	0.0	#DIV/0!
-1	0	0	GATAACTATG	8829	0.0	#DIV/0!	0.0
-1	0	0	GATAAGGATT	8830	0.0	#DIV/0!	0.0
0	0	-1	GATAAGGACT	8831	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATAAGGCC	8832	#DIV/0!	0.0	#DIV/0!
0	0	0	GATAAGGCTA	8833	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GATAAGGTAA	8834	0.0	#DIV/0!	0.0
0	0	1	GATAATACCA	8835	#DIV/0!	0.0	#DIV/0!
0	0	1	GATAATGAAT	8836	#DIV/0!	0.0	#DIV/0!
1	0	0	GATAATGATG	8837	0.0	#DIV/0!	0.0
-1	0	0	GATAATTAC	8838	0.0	#DIV/0!	0.0
0	0	1	GATAATTTCG	8839	#DIV/0!	0.0	#DIV/0!
1	0	0	GATACAAATA	8840	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATACAAGAC	8841	#DIV/0!	0.0	#DIV/0!
-1	0	0	GATACAAGGT	8842	0.0	#DIV/0!	0.0
0	0	1	GATACCAATC	8843	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATACCTGGAA	8844	#DIV/0!	0.0	#DIV/0!
-1	0	0	GATACGACAA	8845	0.0	#DIV/0!	0.0
0	0	1	GATAGGAAAC	8846	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	GATAGGACAA	8847	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATAGGATTA	8848	0.0	#DIV/0!	0.0
0	0	1	GATAGTTAGA	8849	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATAATAATA	8850	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATAATAATGG	8851	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATATCTCCA	8852	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GATATGCATA	8853	#DIV/0!	0.0	#DIV/0!
0	1	0	GATATGCGTT	8854	#DIV/0!	0.0	#DIV/0!
0	0	1	GATATGGATA	8855	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATATGGATG	8856	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATATGTGGG	8857	0.0	#DIV/0!	0.0
0	1	0	GATATGTTCT	8858	#DIV/0!	0.0	#DIV/0!
0	0	1	GATATTAAAA	8859	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATATTACAA	8860	0.0	#DIV/0!	0.0
0	0	1	GATATTCAG	8861	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATATTTCGG	8862	#DIV/0!	0.0	#DIV/0!
0	0	1	GATATTTCCTT	8863	#DIV/0!	0.0	#DIV/0!
0	1	0	GATCAACCTC	8864	#DIV/0!	0.0	#DIV/0!
1	0	0	GATCAACGAG	8865	0.0	#DIV/0!	0.0
1	1	0	GATCAAGGTA	8866	0.0	#DIV/0!	0.0
1	1	0	GATCAAGTTA	8867	0.0	#DIV/0!	0.0
1	1	0	GATCACTGGT	8868	0.0	#DIV/0!	0.0
0	0	1	GATCAGAAGT	8869	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATCAGATTAA	8870	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCAGTTGG	8871	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GATCATCTGG	8872	0.0	#DIV/0!	0.0
0	0	1	GATCCAGTGG	8873	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCCCGACG	8874	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	GATCCGTATA	8875	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCCTTCGC	8876	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATCCTTTG	8877	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCGAGAAA	8878	#DIV/0!	0.0	#DIV/0!
0	1	0	GATGGCATAT	8879	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGCCCTCT	8880	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATGGTACAG	8881	0.0	#DIV/0!	0.0
0	0	1	GATGGTGCTT	8882	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGGTGTCT	8883	#DIV/0!	0.0	#DIV/0!
0	0	0	GATGGTGAA	8884	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGGTTTC	8885	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCTATAAA	8886	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCTCACCA	8887	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATCTTAAT	8888	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAAACAG	8889	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GATGAAAGA	8890	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAAATAG	8891	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATGAAATTG	8892	0.0	#DIV/0!	0.0
1	0	0	GATGAACAGG	8893	0.0	#DIV/0!	0.0
0	1	0	GATGAAGACA	8894	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGAAGGTT	8895	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGACACTT	8896	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GATGACTTGT	8897	#DIV/0!	0.0	#DIV/0!
-1	0	0	GATGAGAAA	8898	0.0	#DIV/0!	0.0
0	1	0	GATGAGACTC	8899	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGAGATCC	8900	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAGATTA	8901	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAGCATT	8902	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GATGAGGGAA	8903	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGAGTTTC	8904	0.0	#DIV/0!	0.0
0	0	1	GATGATGAAA	8905	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGCCAAAAA	8906	#DIV/0!	0.0	#DIV/0!
1	1	0	GATGCCAAAGG	8907	0.0	#DIV/0!	0.0
0	0	0	GATGCCACAG	8908	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGCCAGCAC	8909	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGCCACAA	8910	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GATGCCATCA	8911	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGCCCCAA	8912	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGCGTTAA	8913	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGCTGAATC	8914	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGGAACAA	8915	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGGAAGGT	8916	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGGAGTTA	8917	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGGATGCT	8918	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GATGGCTTCT	8919	0.0	#DIV/0!	0.0
1	1	0	GATGGGCTTC	8920	0.0	#DIV/0!	0.0
0	0	1	GATGGGGTAG	8921	#DIV/0!	0.0	#DIV/0!
1	1	0	GATGGGGTTCT	8922	0.0	#DIV/0!	0.0
1	1	0	GATGGGTGGAT	8923	0.0	#DIV/0!	0.0
0	0	1	GATGGGTTTA	8924	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGTAATAT	8925	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGTACAAC	8926	#DIV/0!	0.0	#DIV/0!
1	-1	0	GATGTAGAAA	8927	0.0	#DIV/0!	0.0
0	0	1	GATGTATGAA	8928	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGTAAAC	8929	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GATGTCAAACG	8930	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	GATGTCACAC	8931	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGTCAGGA	8932	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGTCATCC	8933	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATGTCATG	8934	0.0	#DIV/0!	0.0
0	1	0	GATGTCAAC	8935	#DIV/0!	0.0	#DIV/0!
0	1	0	GATGTTAACG	8936	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGTTCTTG	8937	0.0	#DIV/0!	0.0
0	0	1	GATGTTTGT	8938	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTAACAA	8939	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTAAGAGG	8940	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTAAGGCT	8941	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTACAGA	8942	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTACTAAG	8943	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTACTATC	8944	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTATGGAT	8945	0.0	#DIV/0!	0.0
0	1	0	GATTATTGT	8946	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTCAACGG	8947	0.0	#DIV/0!	0.0
0	0	1	GATTCACCCC	8948	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTCCAACA	8949	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTCCATGG	8950	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTCTCGAA	8951	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTGAAAAA	8952	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTGAAAAT	8953	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTGAGGCAT	8954	0.0	#DIV/0!	0.0
0	0	1	GATTGCAAGA	8955	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATTGCATTG	8956	0.0	#DIV/0!	0.0
0	1	0	GATTGCTGAA	8957	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTGTAGAA	8958	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	GATTGTCACT	8959	#DIV/0!	0.0	#DIV/0!
0	-1	0	GATTGTCCAA	8960	#DIV/0!	0.0	#DIV/0!
0	-1	0	GATTGTCTAC	8961	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTGTCTTT	8962	0.0	#DIV/0!	0.0
1	0	0	GATTGTGACA	8963	0.0	#DIV/0!	0.0
0	0	1	GATTGTCTG	8964	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GATTGTTCT	8965	0.0	#DIV/0!	0.0
-1	0	0	GATTAAAAAT	8966	0.0	#DIV/0!	0.0
1	0	0	GATTAACTC	8967	0.0	#DIV/0!	0.0
0	1	0	GATTATTGT	8968	#DIV/0!	0.0	#DIV/0!
-1	0	0	GATTCAAAA	8969	0.0	#DIV/0!	0.0
0	1	0	GATTTCAGGA	8970	#DIV/0!	0.0	#DIV/0!
-1	0	0	GATTGGTCA	8971	0.0	#DIV/0!	0.0
0	0	1	GATTCTACT	8972	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTCTGT	8973	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTGGAGC	8974	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTGGCAA	8975	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTGGCTG	8976	0.0	#DIV/0!	0.0
0	0	0	GATTGGTTA	8977	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	GATTAAAAAA	8978	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTTTATCA	8979	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTGGGTT	8980	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTTTCTT	8981	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTTTGAA	8982	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTTTTAT	8983	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAAAAAAA	8984	0.0	#DIV/0!	0.0
0	1	0	GCAAAAAATG	8985	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAAACCTT	8986	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GCAAAACTT	8987	0.0	#DIV/0!	10.0
0	1	0	GCAAAATATA	8988	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAAAATTATT	8989	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAAATTAG	8990	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAAACCAAC	8991	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAAACTTACT	8992	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCAAAAGACTT	8993	0.0	#DIV/0!	0.0
1	0	0	GCAAAGGATA	8994	0.0	#DIV/0!	0.0
0	0	1	GCAAAGGGGA	8995	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAAGTTGG	8996	0.0	#DIV/0!	0.0
1	0	0	GCAAATAATA	8997	0.0	#DIV/0!	0.0
0	0	1	GCAAATGGAA	8998	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAAATTGT	8999	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAATTTT	9000	0.0	#DIV/0!	0.0
1	0	0	GCAACAAAGAA	9001	0.0	#DIV/0!	0.0
0	1	0	GCAACACCCG	9002	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAACACCTT	9003	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCAACAGAAG	9004	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAACAGGAG	9005	#DIV/0!	0.0	#DIV/0!
0	1	0	GCAACATTCG	9006	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAACCAATG	9007	0.0	#DIV/0!	0.0
0	0	1	GCAACCAATT	9008	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAACCCCAAT	9009	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAACCGGGT	9010	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAACTTAC	9011	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCAACTTCA	9012	0.0	#DIV/0!	0.0
0	0	1	GCAAGAAAAGA	9013	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAGAAAGGT	9014	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GCAAGACATC	9015	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAAGACCTC	9016	#DIV/0!	0.0	#DIV/0!
0	1	0	GCAAGACCTC	9017	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAGATCTG	9018	0.0	#DIV/0!	0.0
0	1	0	GCAAGCAAGC	9019	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAAGGTATC	9020	#DIV/0!	0.0	#DIV/0!
0	1	1	GCAAGGTGTT	9021	#DIV/0!	0.0	#DIV/0!
0	0	0	GCAAGTCTT	9022	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAATAAAA	9023	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAATACTAA	9024	#DIV/0!	0.0	#DIV/0!
0	1	0	GCAATAGTAC	9025	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAATATCAC	9026	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAATTATTAC	9027	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAATTGGCAG	9028	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAATTGCCA	9029	#DIV/0!	0.0	#DIV/0!
1	1	0	GCAATTAGAC	9030	0.0	#DIV/0!	#DIV/0!
0	0	1	GCAATTGGTT	9031	#DIV/0!	0.0	#DIV/0!
1	1	0	GCACAATTATT	9032	0.0	#DIV/0!	0.0
0	0	0	GCACACTCT	9033	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCACAGGTAT	9034	#DIV/0!	0.0	#DIV/0!
1	1	0	GCACATCAGC	9035	0.0	#DIV/0!	0.0
1	1	0	GCACCAAATGG	9036	0.0	#DIV/0!	0.0
1	1	0	GCACCAATT	9037	0.0	#DIV/0!	0.0
0	0	0	GCACCCCAAC	9038	#DIV/0!	0.0	#DIV/0!
1	1	0	GCACCTGTTA	9039	0.0	#DIV/0!	0.0
0	0	1	GCACGCCCTAT	9040	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCACGGTAAC	9041	#DIV/0!	0.0	#DIV/0!
0	1	1	GCACGTAAGG	9042	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	GCA CGT GAGG	9043	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCA CGT GCAT	9044	#DIV/0!	0.0	#DIV/0!
0	1	0	GCA CT CTAAT	9045	0.0	#DIV/0!	0.0
0	0	1	GCA CT GAATC	9046	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCA CT GAGAA	9047	#DIV/0!	0.0	#DIV/0!
0	0	0	GCA CT GAGTC	9048	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCA CT GATCT	9049	#DIV/0!	0.0	#DIV/0!
-1	0	0	GCA CT GCATA	9050	0.0	#DIV/0!	0.0
0	-1	0	GCA CT GGAGT	9051	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GCA GAA ACACAA	9052	#DIV/0!	0.0	#DIV/0!
1	1	0	GCA GAA ATTAA	9053	0.0	#DIV/0!	0.0
0	0	0	GCA GAA CGCC	9054	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	GCA GAA GGAT	9055	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GAC CGCT	9056	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCA GACT TGG	9057	#DIV/0!	0.0	#DIV/0!
0	0	0	GCA GAG ATGA	9058	0.0	#DIV/0!	0.0
0	-1	0	GCA GAT GCCT	9059	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCA GATT CA	9060	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	GCA GG CAC AAA	9061	0.0	#DIV/0!	0.0
1	1	0	GCA GG CT ACCT	9062	0.0	#DIV/0!	0.0
1	-1	0	GCA GG CT CTGT	9063	0.0	#DIV/0!	0.0
0	0	1	GCA GG CT CCTT	9064	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCA GG CC AGCG	9065	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCA GG CC AGCG	9066	0.0	#DIV/0!	0.0
0	-1	0	GCA GG GT GTGT	9067	#DIV/0!	0.0	#DIV/0!
-1	0	0	GCA GG TT GGG	9068	0.0	#DIV/0!	0.0
0	1	0	GCA GT AAAAG	9069	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GT AGAGA	9070	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	GCA GT CGG AT	9071	0.0	#DIV/0!	0.0
0	0	1	GCA GT GCA AG	9072	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCA GT GGT GA	9073	#DIV/0!	0.0	#DIV/0!
0	1	0	GCA GT CA AC	9074	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GT TCT CA	9075	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GC AT TA ACT TG	9076	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GC AT ACT A AC	9077	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GC AT AGG AGT	9078	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GC AT AT C AT A	9079	0.0	#DIV/0!	0.0
0	1	0	GC AT AT GT GT	9080	#DIV/0!	0.0	#DIV/0!
1	0	0	GC AT AT GT TG	9081	0.0	#DIV/0!	0.0
-1	0	0	GC AT AT TT GT A	9082	0.0	#DIV/0!	0.0
-1	0	0	GC AT CA TC GC	9083	0.0	#DIV/0!	0.0
0	0	1	GC AT CC CA ACC	9084	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GC AT CCC CG TG	9085	#DIV/0!	0.0	#DIV/0!
0	0	1	GC AT CC G CCC	9086	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GC AT CT AG AA	9087	#DIV/0!	0.0	#DIV/0!
0	1	0	GC AT CT CCAA	9088	#DIV/0!	0.0	#DIV/0!
0	0	1	GC AT CT GT AT	9089	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GC AT CT CAT	9090	#DIV/0!	0.0	#DIV/0!
0	1	0	GC AT CT CCT	9091	#DIV/0!	0.0	#DIV/0!
0	1	0	GC ATT ACA AA	9092	#DIV/0!	0.0	#DIV/0!
0	0	1	GC ATT ACT GG	9093	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GC ATT CCT GG	9094	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GC ATT GAAA	9095	0.0	#DIV/0!	0.0
-1	1	0	GC ATT GGAT G	9096	0.0	#DIV/0!	0.0
0	0	1	GC ATT GTTG	9097	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GC ATT TGG AT	9098	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GCA GCA	TTCACA TTTCAC	9099	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	TTTCC TTTC	9100	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	AACCGA AACCGA	9101	#DIV/0!	0.0	#DIV/0!
1	1	0	GCA GCA	AAAGACCT AAAGACCT	9102	0.0	#DIV/0!	0.0
0	0	1	GCA GCA	AAAGACCT AAAGACCT	9103	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GCA GCA	AAAGACCA AAAGACCA	9104	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	AAAGGCC AAAGGCC	9105	#DIV/0!	0.0	#DIV/0!
0	0	0	GCA GCA	AAAGGC AAAGGC	9106	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCA GCA	AAAGGGC AAAGGGC	9107	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GCA GCA	AAAGGGTA AAAGGGTA	9108	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	AAATACTA AAATACTA	9109	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GCA GCA	AAATCAA AAATCAA	9110	0.0	#DIV/0!	0.0
1	1	0	GCA GCA	AAATGCAA AAATGCAA	9111	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	AAATGCTG AAATGCTG	9112	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GCA GCA	AAATGCC AAATGCC	9113	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCA GCA	AAATGTCA AAATGTCA	9114	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	AAATTAAAT AAATTAAAT	9115	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	AAATTATT AAATTATT	9116	#DIV/0!	0.0	#DIV/0!
0	0	0	GCA GCA	CACATTCT CACATTCT	9117	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCA GCA	CACGACTA CACGACTA	9118	#DIV/0!	0.0	#DIV/0!
0	0	0	GCA GCA	CACGATGC CACGATGC	9119	#DIV/0!	0.0	#DIV/0!
0	0	1	GCA GCA	CACGGTCC CACGGTCC	9120	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	GCA GCA	CACTAGAG CACTAGAG	9121	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GCA GCA	CACTATG CACTATG	9122	0.0	#DIV/0!	0.0
0	0	1	GCA GCA	CGCACTA CGCACTA	9123	#DIV/0!	0.0	#DIV/0!
1	1	0	GCA GCA	CGGACAA CGGACAA	9124	0.0	#DIV/0!	0.0
0	1	0	GCA GCA	CGTACTCG CGTACTCG	9125	#DIV/0!	0.0	#DIV/0!
1	0	0	GCA GCA	CGTAGTAG CGTAGTAG	9126	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GCCATATCCA	9127	0.0	#DIV/0!	0.0
0	0	1	GCCATTACTT	9128	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCCATTCTTG	9129	0.0	#DIV/0!	0.0
1	0	0	GCCATTGGGG	9130	0.0	#DIV/0!	0.0
0	1	0	GCCATTGCT	9131	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCCATTACT	9132	#DIV/0!	0.0	#DIV/0!
-1	0	0	GCCCCATTTT	9133	0.0	#DIV/0!	0.0
0	0	1	GCCCCAGCTC	9134	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCCCGAAAG	9135	#DIV/0!	0.0	#DIV/0!
-1	0	0	GCCCCGGGCC	9136	0.0	#DIV/0!	0.0
0	1	0	GCCCTCCCCC	9137	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCCTGGCCA	9138	#DIV/0!	0.0	#DIV/0!
1	0	0	GCCCTGTGG	9139	0.0	#DIV/0!	0.0
0	0	1	GCCCTTCCTT	9140	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGAACTCA	9141	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGGCACCTG	9142	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCGGCATACA	9143	#DIV/0!	0.0	#DIV/0!
-1	0	0	GCGGCCAGAC	9144	0.0	#DIV/0!	0.0
-1	0	0	GCGCGTGTAT	9145	0.0	#DIV/0!	0.0
-1	0	0	GCGGCTAGAC	9146	0.0	#DIV/0!	0.0
0	1	0	GCGGCTAGCA	9147	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGGCTATGC	9148	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGGCTGCTA	9149	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGGCTTCGT	9150	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGGGCAGAT	9151	0.0	#DIV/0!	0.0
0	1	0	GCGGGGGTA	9152	#DIV/0!	0.0	#DIV/0!
-1	0	0	GCGGGTGGGG	9153	0.0	#DIV/0!	0.0
-1	0	0	GCGGTGGAGT	9154	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	GCCGTTACAG	9155	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCGTTAGTA	9156	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCTAATTAA	9157	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCATTCCCT	9158	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	GCCTCAAAGG	9159	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCCTCCCCCA	9160	0.0	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCTCGGGGG	9161	#DIV/0!	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCTCGGTTA	9162	#DIV/0!	0.0	#DIV/0!	#DIV/0!
-1	0	0	GCCTCTACGG	9163	0.0	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCCTCTTCT	9164	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCTGGATAT	9165	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	0	GCCTGGGTG	9166	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCCIGTCITG	9167	0.0	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCTGTTGAG	9168	#DIV/0!	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCTTAAGTT	9169	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCTTAGCGC	9170	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCCITCAACT	9171	0.0	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCTTCAGGC	9172	#DIV/0!	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCTTCATAT	9173	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	GCCTTCCACA	9174	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	GCCTTGACAA	9175	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	GCCTTGATCT	9176	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	GCCTTGCAA	9177	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCTTGATA	9178	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	GCCTTGGA	9179	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	GCCTTCCCA	9180	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCTTGTGC	9181	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCGAAATGGC	9182	0.0	#DIV/0!	#DIV/0!	0.0

Table 5, cont.

0	0	1	GCGAAATTCC	9183	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGAAATT	9184	0.0	#DIV/0!	0.0
-1	0	0	GCGAACCACT	9185	0.0	#DIV/0!	0.0
0	0	1	GCGAAGACTG	9186	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGAAGTAA	9187	0.0	#DIV/0!	0.0
0	0	-1	GCGAATAGT	9188	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGAATTCCA	9189	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGACATAAT	9190	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGACGGAAA	9191	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGACTATT	9192	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGAGGGGCC	9193	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGAGGCAGAT	9194	0.0	#DIV/0!	0.0
1	0	0	GCGAGGCAAT	9195	0.0	#DIV/0!	0.0
0	0	1	GCGAGTAGGC	9196	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	GCGAGTTAGT	9197	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGATACCGG	9198	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATCCACG	9199	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATGGTT	9200	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATTATTC	9201	#DIV/0!	0.0	#DIV/0!
-1	0	0	GCGATTCTGT	9202	0.0	#DIV/0!	0.0
0	0	1	GCGATTGGCT	9203	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATTGTGT	9204	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGCAAGTAC	9205	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGCACCAAC	9206	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCGCACCACA	9207	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGCACCAGA	9208	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	GCGCAGATAG	9209	0.0	#DIV/0!	0.0
1	0	0	GCGCAGTTGG	9210	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TAGCACTTCT	10611	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TAGCAGGGCG	10612	0.0	#DIV/0!	0.0
1	0	0	TAGCATTGCA	10613	0.0	#DIV/0!	0.0
0	1	0	TAGCATTGC	10614	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGCCAAGTT	10615	#DIV/0!	0.0	#DIV/0!
0	-1	0	TAGCCCAACT	10616	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGCCCCTCA	10617	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGCCCTAAA	10618	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGCCGGTCT	10619	0.0	#DIV/0!	0.0
0	0	1	TAGGCCAACT	10620	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGCTACAAC	10621	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGCTTCATA	10622	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGGACAATA	10623	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGGACGCCA	10624	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TAGGAGAAC	10625	0.0	#DIV/0!	#DIV/0!
1	0	0	TAGGAGTCCTC	10626	0.0	#DIV/0!	0.0
0	1	0	TAGGCACCG	10627	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGGCCGCAA	10628	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGGGAAAT	10629	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGGTGTGAC	10630	0.0	#DIV/0!	0.0
1	0	0	TAGGTGTCC	10631	0.0	#DIV/0!	0.0
1	0	0	TAGTAAGAA	10632	0.0	#DIV/0!	0.0
0	1	0	TAGTAATGT	10633	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTAACAAG	10634	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTAATATA	10635	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGTAATCTC	10636	0.0	#DIV/0!	#DIV/0!
1	0	0	TAGTAGGAAA	10637	0.0	#DIV/0!	0.0
0	0	1	TAGTACTGTT	10638	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TAGTAGGTGC	10639	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TAGTCAGGAA	10640	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTCGGAGT	10641	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGTCTTTG	10642	0.0	#DIV/0!	0.0
0	1	0	TAGTGAAGTC	10643	#DIV/0!	0.0	#DIV/0!
0	0	1	TAGTGAGTGG	10644	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TAGTGTAAGT	10645	0.0	#DIV/0!	0.0
0	0	1	TAGTGTAATA	10646	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGTTGACCG	10647	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TAGTTTAATT	10648	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGTTTCTAA	10649	0.0	#DIV/0!	0.0
0	1	0	TAGTTTCTGT	10650	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTTTGGAA	10651	#DIV/0!	0.0	#DIV/0!
-1	0	0	TATAAAAAAA	10652	0.0	#DIV/0!	0.0
1	0	0	TATAAACAC	10653	0.0	#DIV/0!	0.0
0	1	0	TATAAAAGAA	10654	#DIV/0!	0.0	#DIV/0!
0	1	0	TATAAGCAC	10655	#DIV/0!	0.0	#DIV/0!
0	0	1	TATAACGGGA	10656	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATAACGTGT	10657	#DIV/0!	0.0	#DIV/0!
0	1	0	TATAACTTCA	10658	#DIV/0!	0.0	#DIV/0!
0	0	1	TATAAGACTA	10659	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATAAGGGGT	10660	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TATAAGGTCC	10661	0.0	#DIV/0!	0.0
1	0	0	TATAAGTTT	10662	0.0	#DIV/0!	0.0
-1	0	0	TATAATAAT	10663	0.0	#DIV/0!	0.0
0	1	0	TATAATAAGT	10664	#DIV/0!	0.0	#DIV/0!
0	0	1	TATAATTATA	10665	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATACAAAAT	10666	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TATACAAGCT	10667	#DIV/0!	0.0	#DIV/0!
0	0	1	TATACCACTT	10668	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATACCTGG	10669	#DIV/0!	0.0	#DIV/0!
0	1	0	TATACGATAC	10670	#DIV/0!	0.0	#DIV/0!
-1	0	0	TATACTAATG	10671	0.0	#DIV/0!	0.0
0	0	1	TATACTACGC	10672	#DIV/0!	0.0	#DIV/0!
0	0	0	TATACTGGTT	10673	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATACTGTAT	10674	#DIV/0!	0.0	#DIV/0!
0	-1	0	TATACTAAC	10675	#DIV/0!	0.0	#DIV/0!
1	1	0	TATAGAACCTG	10676	0.0	#DIV/0!	0.0
1	1	0	TATAGACCTT	10677	0.0	#DIV/0!	0.0
0	0	0	TATAGAGGAA	10678	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TATAGATTCA	10679	0.0	#DIV/0!	0.0
0	0	1	TATAGCATAA	10680	#DIV/0!	0.0	#DIV/0!
0	0	0	TATAGCTGTT	10681	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TATAGGTCAT	10682	0.0	#DIV/0!	0.0
0	0	0	TATATAACCT	10683	#DIV/0!	0.0	#DIV/0!
0	0	1	TATATAATAG	10684	#DIV/0!	0.0	#DIV/0!
0	0	1	TATATAAA	10685	#DIV/0!	0.0	#DIV/0!
0	0	1	TATATATATG	10686	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TATATATGAT	10687	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TATATATGCG	10688	0.0	#DIV/0!	0.0
0	0	1	TATATCTATA	10689	#DIV/0!	0.0	#DIV/0!
0	0	1	TATATCTTC	10690	#DIV/0!	0.0	#DIV/0!
-1	1	0	TATATGTATG	10691	0.0	#DIV/0!	0.0
1	1	0	TATATGTTA	10692	0.0	#DIV/0!	0.0
1	1	0	TATATTAATA	10693	0.0	#DIV/0!	0.0
1	1	0	TATATTACAC	10694	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TATATTAGTT	10695	0.0	#DIV/0!	0.0
1	0	0	TATATTATCA	10696	0.0	#DIV/0!	0.0
0	-1	0	TATATTATA	10697	#DIV/0!	0.0	#DIV/0!
0	0	1	TATATTATTG	10698	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TATATTCCCCG	10699	0.0	#DIV/0!	0.0
0	0	1	TATATTCCCTT	10700	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TATATTCTT	10701	0.0	#DIV/0!	0.0
0	0	1	TATCAAAAAA	10702	#DIV/0!	0.0	#DIV/0!
0	1	0	TATCAAGTGG	10703	#DIV/0!	0.0	#DIV/0!
-1	0	0	TATCAATTGT	10704	0.0	#DIV/0!	0.0
0	0	1	TATCACATA	10705	#DIV/0!	0.0	#DIV/0!
-1	0	0	TATCCAGTTT	10706	0.0	#DIV/0!	0.0
-1	0	0	TATCCATATA	10707	0.0	#DIV/0!	0.0
-1	0	0	TATCCATTGA	10708	0.0	#DIV/0!	0.0
0	0	1	TATCCTCTGG	10709	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATCCTCTTC	10710	#DIV/0!	0.0	#DIV/0!
1	0	0	TATCGACTGC	10711	0.0	#DIV/0!	0.0
0	0	1	TATCGAGGGT	10712	#DIV/0!	0.0	#DIV/0!
1	0	0	TATCGGCCAC	10713	0.0	#DIV/0!	0.0
0	0	1	TATCTAAAAA	10714	#DIV/0!	0.0	#DIV/0!
0	0	1	TATCTACCAA	10715	#DIV/0!	0.0	#DIV/0!
-1	0	0	TATCTATTG	10716	0.0	#DIV/0!	0.0
0	0	1	TATCTCAGAT	10717	#DIV/0!	0.0	#DIV/0!
0	0	1	TATCTGAAAG	10718	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATCTGGACC	10719	#DIV/0!	0.0	#DIV/0!
0	0	1	TATCTTCTAA	10720	#DIV/0!	0.0	#DIV/0!
0	0	1	TATCTTGCTG	10721	#DIV/0!	0.0	#DIV/0!
0	0	1	TATCTTGGCA	10722	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

-1	0	0	TATCTTTCT	10723	0.0	#DIV/0!	0.0
0	0	1	TATCCTTTT	10724	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TATGAAAAAA	10725	0.0	#DIV/0!	0.0
0	0	0	TATGAAACTT	10726	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATGAATTAA	10727	#DIV/0!	0.0	#DIV/0!
0	0	1	TATGAACGTA	10728	#DIV/0!	0.0	#DIV/0!
1	1	0	TATGAAGGGC	10729	0.0	#DIV/0!	0.0
1	1	0	TATGAATGCT	10730	0.0	#DIV/0!	0.0
0	0	1	TATGAATGTA	10731	#DIV/0!	0.0	#DIV/0!
0	0	1	TATGAATTAT	10732	#DIV/0!	0.0	#DIV/0!
1	1	0	TATGACCAGT	10733	0.0	#DIV/0!	0.0
0	0	0	TATGACCTTT	10734	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATGACGTAT	10735	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGAGGTAT	10736	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATGAGAGTA	10737	#DIV/0!	0.0	#DIV/0!
0	0	1	TATGAGGTCA	10738	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TATGATGCAG	10739	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TATGATTCTA	10740	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGCACCTA	10741	0.0	#DIV/0!	0.0
1	1	0	TATGCATTTA	10742	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGGCTGGCT	10743	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATGGCTGGA	10744	0.0	#DIV/0!	0.0
-1	0	0	TATGCGGGCT	10745	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATGAAATA	10746	0.0	#DIV/0!	0.0
1	1	0	TATGGACCCC	10747	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATGGATCAA	10748	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TATGGATCTG	10749	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGGGGGG	10750	0.0	#DIV/0!	0.0
1	1	0	TATGGTACCG	10751	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TATGTAATAA	10751	0.0	#DIV/0!	0.0
0	1	0	TATGTAATTAA	10752	0.0	#DIV/0!	#DIV/0!
0	1	0	TATGTACGTA	10753	0.0	#DIV/0!	#DIV/0!
0	1	0	TATGTATACC	10754	0.0	#DIV/0!	#DIV/0!
0	1	0	TATGTATCAT	10755	0.0	#DIV/0!	#DIV/0!
-1	0	0	TATGTATTCT	10756	0.0	#DIV/0!	0.0
-1	0	0	TATGTATTTT	10757	0.0	#DIV/0!	0.0
0	1	0	TATGTGGAAA	10758	0.0	#DIV/0!	#DIV/0!
0	1	0	TATGTGATAA	10759	0.0	#DIV/0!	#DIV/0!
-1	0	0	TATGTTGGTAC	10760	0.0	#DIV/0!	0.0
0	1	0	TATGTTGAGA	10761	0.0	#DIV/0!	#DIV/0!
-1	0	0	TATGTTGTATA	10762	0.0	#DIV/0!	0.0
0	-1	0	TATGTTAAAA	10763	0.0	#DIV/0!	#DIV/0!
0	1	0	TATGTTATGT	10764	0.0	#DIV/0!	#DIV/0!
0	0	1	TATTAAGGGA	10765	0.0	#DIV/0!	#DIV/0!
0	1	0	TATTAAGGATT	10766	0.0	#DIV/0!	#DIV/0!
-1	0	0	TATTAGTATT	10767	0.0	#DIV/0!	0.0
0	1	0	TATTATTAC	10768	0.0	#DIV/0!	#DIV/0!
0	1	0	TATTCATTG	10769	0.0	#DIV/0!	#DIV/0!
1	0	0	TATTCAAGGGT	10770	0.0	#DIV/0!	0.0
0	0	1	TATTCCGAAA	10771	0.0	#DIV/0!	#DIV/0!
0	0	1	TATTCGGGAAG	10772	0.0	#DIV/0!	#DIV/0!
0	0	1	TATTCGGGAT	10773	0.0	#DIV/0!	#DIV/0!
0	1	0	TATTCTCCGC	10774	0.0	#DIV/0!	#DIV/0!
0	1	0	TATTCTGTTT	10775	0.0	#DIV/0!	#DIV/0!
0	0	1	TATTCCTATT	10776	0.0	#DIV/0!	#DIV/0!
1	0	0	TATTGCAAAT	10777	0.0	#DIV/0!	0.0
0	0	1	TATTGCAACC	10778	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

-1	0	0	TATGGAAACA	10779	0.0	#DIV/0!		0.0
0	0	1	TATGGACTT	10780	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TATGGCAAT	10781	0.0	#DIV/0!	0.0	
0	0	1	TATGGGAGA	10782	#DIV/0!	0.0	#DIV/0!	
0	0	1	TATGGTACT	10783	#DIV/0!	0.0	#DIV/0!	
0	0	1	TATGGTAGG	10784	#DIV/0!	0.0	#DIV/0!	
-1	0	0	TATGGTAGTT	10785	0.0	#DIV/0!	0.0	
0	0	1	TATGGTGC	10786	#DIV/0!	#DIV/0!	#DIV/0!	
-1	0	0	TATTTAAAAA	10787	0.0	#DIV/0!	0.0	
1	0	0	TATTTACCTC	10788	#DIV/0!	0.0	#DIV/0!	
1	1	0	TATTTATTAA	10789	#DIV/0!	0.0	#DIV/0!	
1	1	0	TATTCATT	10790	#DIV/0!	0.0	#DIV/0!	
0	1	0	TATTCCTGG	10791	#DIV/0!	0.0	#DIV/0!	
0	0	1	TATTTTCATA	10792	#DIV/0!	0.0	#DIV/0!	
0	0	0	TATTTTCCCA	10793	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	TATTTTTAAA	10794	0.0	#DIV/0!	0.0	
0	0	1	TATTTTGAA	10795	#DIV/0!	0.0	#DIV/0!	
0	0	1	TATTTTTAA	10796	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAAAAATGG	10797	#DIV/0!	0.0	#DIV/0!	
1	1	0	TCAAAAGCTG	10798	0.0	#DIV/0!	0.0	
1	1	0	TCAAAATTGC	10799	0.0	#DIV/0!	0.0	
1	1	0	TCAAAACAAA	10800	0.0	#DIV/0!	0.0	
1	1	0	TCAAACCGCT	10801	0.0	#DIV/0!	0.0	
0	0	1	TCAAAGCACT	10802	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	TCAAAGCATT	10803	0.0	#DIV/0!	0.0	
1	1	0	TCAAAGCCGT	10804	0.0	#DIV/0!	0.0	
1	1	0	TCAAATAGAG	10805	0.0	#DIV/0!	0.0	
0	0	1	TCAAATCCAA	10806	#DIV/0!	0.0	#DIV/0!	

Table 5, cont.

0	0	1	TCAAATCTTA	10807	#DIV/0!		#DIV/0!	
0	0	0	TCAAATTAAAC	10808	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAACAAAAG	10809	#DIV/0!	#DIV/0!	#DIV/0!	
-1	0	0	TCAACATCAG	10810	0.0	#DIV/0!	0.0	
0	0	0	TCAACATCCCT	10811	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	TCAACCGTGG	10812	0.0	#DIV/0!	#DIV/0!	
0	0	1	TCAACTGGAT	10813	#DIV/0!	#DIV/0!	0.0	
-1	0	0	TCAACTTACT	10814	0.0	#DIV/0!	#DIV/0!	
1	0	0	TCAACTTAA	10815	0.0	#DIV/0!	0.0	
0	0	1	TCAAGAAAGT	10816	#DIV/0!	#DIV/0!	0.0	
-1	0	0	TCAAGAACGG	10817	0.0	#DIV/0!	#DIV/0!	
0	0	1	TCAAGAAGTA	10818	#DIV/0!	#DIV/0!	0.0	
0	1	0	TCAAGATTGT	10819	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAAGCACCT	10820	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAAGCCCTC	10821	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAAGGCTTG	10822	#DIV/0!	0.0	#DIV/0!	
1	0	0	TCAAGGAGTA	10823	0.0	#DIV/0!	0.0	
1	0	0	TCAAGGCCGG	10824	0.0	#DIV/0!	0.0	
-1	0	0	TCAAGTAGCA	10825	0.0	#DIV/0!	0.0	
0	1	0	TCAATAGAGG	10826	#DIV/0!	0.0	#DIV/0!	
0	1	0	TCAATCAGTT	10827	#DIV/0!	0.0	#DIV/0!	
0	1	0	TCAATCATAT	10828	#DIV/0!	0.0	#DIV/0!	
0	1	0	TCAATCTTGC	10829	#DIV/0!	0.0	#DIV/0!	
1	0	0	TCAATCTTTG	10830	0.0	#DIV/0!	0.0	
0	0	1	TCAATGCACA	10831	#DIV/0!	#DIV/0!	0.0	
0	1	0	TCAATTAATG	10832	#DIV/0!	0.0	#DIV/0!	
0	1	0	TCAATTCCCT	10833	#DIV/0!	0.0	#DIV/0!	
1	0	0	TCAATTCGAA	10834	0.0	#DIV/0!	0.0	

Table 5, cont.

0	0	1	TCAATTCTGT	10835	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	TCACAAACACC	10836	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	TCACAATTTA	10837	#DIV/0!		#DIV/0!		#DIV/0!
0	1	0	TCACCGAGGT	10838	#DIV/0!	0.0	#DIV/0!		#DIV/0!
0	1	0	TCACCCGTAC	10839	#DIV/0!	0.0	#DIV/0!		#DIV/0!
0	0	1	TCACCGCATC	10840	#DIV/0!		#DIV/0!		#DIV/0!
1	0	0	TCACCGGGGGC	10841	0.0	#DIV/0!		#DIV/0!	0.0
1	0	0	TCACCGTACA	10842	0.0	#DIV/0!		#DIV/0!	0.0
0	1	0	TCACCTTGCA	10843	#DIV/0!	0.0	#DIV/0!		#DIV/0!
1	0	0	TCACGATTA	10844	0.0	#DIV/0!		#DIV/0!	0.0
0	1	0	TCACGGCCAA	10845	#DIV/0!	0.0	#DIV/0!		#DIV/0!
0	0	1	TCACGGGTAC	10846	#DIV/0!		#DIV/0!		#DIV/0!
1	0	0	TCACTCGCCA	10847	0.0	#DIV/0!		#DIV/0!	0.0
0	1	0	TCACTCTGCT	10848	#DIV/0!	0.0	#DIV/0!		#DIV/0!
1	0	0	TCACTGACGC	10849	0.0	#DIV/0!		#DIV/0!	0.0
0	1	0	TCACTGGCCT	10850	#DIV/0!	0.0	#DIV/0!		#DIV/0!
1	0	0	TCACCTCATT	10851	0.0	#DIV/0!		#DIV/0!	0.0
0	1	0	TCACCTCCGC	10852	#DIV/0!	0.0	#DIV/0!		#DIV/0!
0	0	1	TCACCTGAGG	10853	#DIV/0!		#DIV/0!		#DIV/0!
0	1	0	TCACCTGGTC	10854	#DIV/0!	0.0	#DIV/0!		#DIV/0!
0	0	1	TCACCTTGAA	10855	#DIV/0!	0.0	#DIV/0!		#DIV/0!
0	0	1	TCAGAAACGC	10856	#DIV/0!		#DIV/0!		#DIV/0!
1	1	0	TCAGAAAGCA	10857	0.0	#DIV/0!		#DIV/0!	0.0
0	1	0	TCAGAAAGGT	10858	#DIV/0!	0.0	#DIV/0!		#DIV/0!
0	1	0	TCAGAAGTGG	10859	#DIV/0!	0.0	#DIV/0!		#DIV/0!
1	1	0	TCAGAAATATA	10860	0.0	#DIV/0!		#DIV/0!	0.0
0	0	1	TCAGAATCTT	10861	#DIV/0!		#DIV/0!		#DIV/0!
0	0	1	TCAGGACAG	10862	#DIV/0!		#DIV/0!		#DIV/0!

Table 5, cont.

0	1	0	TCAGAGATAA	10863	#DIV/0!	0.0	#DIV/0!
0	0	1	TCAGAGGAAA	10864	#DIV/0!	0.0	#DIV/0!
0	0	1	TCAGATATGA	10865	#DIV/0!	0.0	#DIV/0!
1	0	0	TCAGATGTTG	10866	0.0	#DIV/0!	#DIV/0!
1	0	0	TCAGATTGGA	10867	0.0	#DIV/0!	0.0
0	-1	0	TCAGATTCT	10868	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAGCAAAG	10869	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAGCAATAA	10870	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAGCCCTGCA	10871	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCAGGGTATG	10872	0.0	#DIV/0!	0.0
0	1	0	TCAGGGATCGA	10873	#DIV/0!	0.0	#DIV/0!
0	0	1	TCAGGGACTC	10874	#DIV/0!	0.0	#DIV/0!
0	0	-1	TCAGGTGCTG	10875	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCAGTAACCC	10876	0.0	#DIV/0!	0.0
0	0	1	TCAGTAAGCC	10877	#DIV/0!	0.0	#DIV/0!
0	0	0	TCAGTAGAAC	10878	#DIV/0!	0.0	#DIV/0!
0	0	1	TCAGTATTCC	10879	#DIV/0!	0.0	#DIV/0!
0	0	-1	TCAGTCGCAA	10880	#DIV/0!	0.0	#DIV/0!
0	0	0	TCAGTGTATC	10881	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCATAACTGA	10882	0.0	#DIV/0!	#DIV/0!
1	0	0	TCATAATCTT	10883	0.0	#DIV/0!	0.0
0	0	1	TCATAGAATT	10884	#DIV/0!	0.0	#DIV/0!
0	0	0	TCATAGCACT	10885	#DIV/0!	0.0	#DIV/0!
0	0	-1	TCATCAAAA	10886	#DIV/0!	0.0	#DIV/0!
0	0	1	TCATCAATGA	10887	#DIV/0!	0.0	#DIV/0!
0	0	0	TCATCACCGA	10888	#DIV/0!	0.0	#DIV/0!
0	1	0	TCATCACCTA	10889	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCATCCAGAT	10890	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TCATCGAAAA	10891	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCATCGGAAG	10892	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCATCGTAGT	10893	0.0	#DIV/0!	0.0
1	0	0	TCATCGTATG	10894	0.0	#DIV/0!	0.0
0	1	0	TCATCGTCAG	10895	#DIV/0!	0.0	#DIV/0!
0	1	0	TCATCGTCAT	10896	#DIV/0!	0.0	#DIV/0!
0	0	1	TCATCTACAT	10897	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCATCTGTGA	10898	0.0	#DIV/0!	0.0
1	0	0	TCATCTGTTT	10899	0.0	#DIV/0!	0.0
0	0	1	TCATCTTACA	10900	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCATCTTCCT	10901	0.0	#DIV/0!	0.0
0	0	1	TCATCTTTAC	10902	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCATTTAAACA	10903	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCATTCAAAA	10904	0.0	#DIV/0!	0.0
-1	0	0	TCATTCAACG	10905	0.0	#DIV/0!	0.0
1	0	0	TCATTCAAGTA	10906	0.0	#DIV/0!	0.0
-1	0	0	TCATTGAGAA	10907	0.0	#DIV/0!	0.0
0	0	1	TCATTTCGAA	10908	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCATTTATA	10909	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCAAAAAAA	10910	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCAAAAGGC	10911	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCCAAAAGGCC	10912	0.0	#DIV/0!	0.0
0	0	1	TCCAAAAGGCC	10913	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCAAAAGTGC	10914	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCAAGTACC	10915	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCAAGCAAT	10916	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCCAAGCATT	10917	0.0	#DIV/0!	0.0
1	0	0	TCCAAGGGAGG	10918	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TCCAAGTACG	10919	0.0	#DIV/0!	0.0
-1	0	0	TCCAAGTCG	10920	0.0	#DIV/0!	0.0
0	0	1	TCCAATTGTC	10921	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TCCAATTAT	10922	0.0	#DIV/0!	0.0
0	0	0	TCCACAATAT	10923	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCACAAATT	10924	#DIV/0!	0.0	#DIV/0!
0	0	0	TCCACACATT	10925	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCACCCAAGC	10926	0.0	#DIV/0!	0.0
0	0	1	TCCACGGTTC	10927	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TCCACTAATC	10928	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCACTAGTC	10929	0.0	#DIV/0!	0.0
0	0	1	TCCACTTGAG	10930	#DIV/0!	0.0	#DIV/0!
0	0	0	TCCAGATCCA	10931	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCAGCCAT	10932	#DIV/0!	0.0	#DIV/0!
0	0	0	TCCAGCTGGA	10933	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCAGGGACT	10934	0.0	#DIV/0!	0.0
-1	0	0	TCCAGTGAA	10935	0.0	#DIV/0!	0.0
1	0	0	TCCATAACCT	10936	0.0	#DIV/0!	0.0
0	0	1	TCCATAGGCC	10937	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCATATCAA	10938	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCATCTTGC	10939	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCATCTTGT	10940	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCATTAATA	10941	0.0	#DIV/0!	0.0
0	0	1	TCCATTACCA	10942	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCACCTCCT	10943	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCCAGTTCG	10944	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCCAATTA	10945	0.0	#DIV/0!	0.0
0	1	0	TCCCCAGAAG	10946	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TCCCCAGAGG	10947	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCCCGTAA	10948	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCCCTACA	10949	0.0	#DIV/0!	0.0
0	1	0	TCCCCGATAC	10950	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCCGGATCG	10951	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCCGATGG	10952	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCCCGGACA	10953	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCCCGTAAC	10954	0.0	#DIV/0!	0.0
1	1	0	TCCCCGTAAG	10955	0.0	#DIV/0!	0.0
0	0	1	TCCCCGTAGT	10956	#DIV/0!	0.0	#DIV/0!
1	1	0	TCCCCGTAC	10957	0.0	#DIV/0!	0.0
0	0	1	TCCCCGGTCGT	10958	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCCCCGTGAA	10959	0.0	#DIV/0!	0.0
1	1	0	TCCCCGGTGCA	10960	0.0	#DIV/0!	0.0
0	0	1	TCCCCGTTAC	10961	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCCGGTTAG	10962	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCCGGTTCA	10963	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCCGGTTT	10964	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCCCCTAGAA	10965	0.0	#DIV/0!	0.0
0	0	1	TCCCCTGGCT	10966	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCCGAACAT	10967	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCGGACAG	10968	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	TCCCCGTAAAA	10969	0.0	#DIV/0!	0.0
0	0	1	TCCCGTACAC	10970	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCGTATCG	10971	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCTAGCCCT	10972	0.0	#DIV/0!	0.0
0	1	0	TCCCTAGTAA	10973	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCTATAAA	10974	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TCCCTATGAG	10975	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCATTAC	10976	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCTATTCA	10977	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCTCCCTTG	10978	#DIV/0!	0.0	#DIV/0!
0	0	0	TCCCTCTTNG	10979	#DIV/0!	#DIV/0!	#DIV/0!
1	-1	0	TCCCTGAATT	10980	0.0	#DIV/0!	0.0
-1	1	0	TCCCTGTGGT	10981	0.0	#DIV/0!	0.0
0	0	1	TCCCTTAGG	10982	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCGAAAACG	10983	0.0	#DIV/0!	0.0
0	0	-1	TCCGAATAGC	10984	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCGAATCCG	10985	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCGAGCTGG	10986	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCCGAGGTCC	10987	0.0	#DIV/0!	0.0
0	1	0	TCCGAGTTCG	10988	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCGCCAGAAG	10989	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCGCCAGAA	10990	#DIV/0!	#DIV/0!	#DIV/0!
1	-1	0	TCCGCGTAGA	10991	0.0	#DIV/0!	0.0
-1	1	0	TCCGCTCAA	10992	0.0	#DIV/0!	0.0
-1	1	0	TCCGCTGTCT	10993	0.0	#DIV/0!	0.0
1	1	0	TCCGCTTGGG	10994	0.0	#DIV/0!	0.0
1	1	0	TCCGGATCTG	10995	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCGGTCCG	10996	#DIV/0!	0.0	#DIV/0!
-1	1	0	TCCGTACAGC	10997	0.0	#DIV/0!	0.0
-1	1	0	TCCGTATTAA	10998	0.0	#DIV/0!	0.0
0	0	1	TCCGTCACTT	10999	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	TCCGTGGGG	11000	#DIV/0!	0.0	#DIV/0!
0	0	-1	TCCGTACATCG	11001	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTACGATG	11002	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TCCCTACTGGT	11003	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCTAGGCTCG	11004	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCCTAGGCTG	11005	0.0	#DIV/0!	0.0
0	0	1	TCCTCAGTCT	11006	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCTCCATAG	11007	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCTCCCCACC	11008	0.0	#DIV/0!	0.0
0	1	0	TCCTCGACAT	11009	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCTCGGGG	11010	0.0	#DIV/0!	0.0
0	1	0	TCCTCTCCAG	11011	#DIV/0!	0.0	#DIV/0!
1	1	0	TCCTGCAATG	11012	0.0	#DIV/0!	0.0
0	0	1	TCCTGGTATA	11013	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCGTGCTCC	11014	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCCGTGCTTG	11015	0.0	#DIV/0!	0.0
1	0	0	TCCTTACCCA	11016	0.0	#DIV/0!	0.0
1	1	0	TCCTTCAACT	11017	0.0	#DIV/0!	0.0
0	1	0	TCCTTCAGTT	11018	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCTTCTAGC	11019	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCTTCTGGG	11020	#DIV/0!	0.0	#DIV/0!
-1	1	0	TCCTTGACCG	11021	0.0	#DIV/0!	0.0
1	0	0	TCCTTGAGAA	11022	0.0	#DIV/0!	0.0
-1	0	0	TCCTTGCTAA	11023	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTTGTATT	11024	0.0	#DIV/0!	0.0
1	1	0	TCCTTTCAA	11025	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTTTCGA	11026	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTTTGGG	11027	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGAAAAAAA	11028	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGAAACGTA	11029	0.0	#DIV/0!	0.0
0	0	1	TCGAAAAGAAG	11030	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TCGAAAGCTA	11031	0.0	#DIV/0!	0.0
0	0	1	TCGAACCTACC	11032	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGACGGGGC	11033	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCGACGGGGT	11034	0.0	#DIV/0!	0.0
1	0	0	TCGACGTTGC	11035	0.0	#DIV/0!	0.0
0	1	0	TCGACTACAT	11036	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGAGGTGTC	11037	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGATAACGGG	11038	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGATATCTC	11039	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGATCATCT	11040	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGATGAATT	11041	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGATTAAGA	11042	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCGCAAACTAT	11043	0.0	#DIV/0!	0.0
-1	1	0	TCGCAATGTG	11044	0.0	#DIV/0!	0.0
0	0	1	TCGCAGGTAA	11045	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCATTGT	11046	#DIV/0!	0.0	#DIV/0!
0	-1	0	TCGCCATTAA	11047	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCCCTTGG	11048	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGCGCTCA	11049	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGGCGTACA	11050	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGCTGTTT	11051	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGCTTTAA	11052	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGGCTTTT	11053	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGGATGAG	11054	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGTGAAA	11055	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGCTCAATT	11056	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGCTGCCGA	11057	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCTGGGCA	11058	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TCGGCTTTTC	11059	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGCTTAAAT	11060	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGCTTCATC	11061	#DIV/0!	0.0	#DIV/0!
1	1	0	TCGGAAACAA	11062	0.0	#DIV/0!	0.0
0	0	1	TCGGACAGAA	11063	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGGAGATGC	11064	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGATCCCA	11065	#DIV/0!	0.0	#DIV/0!
1	1	0	TCGGCATTAA	11066	0.0	#DIV/0!	0.0
0	0	1	TCGGGGAATG	11067	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGCGAGAG	11068	#DIV/0!	0.0	#DIV/0!
1	1	0	TCGGGGCTCT	11069	0.0	#DIV/0!	0.0
0	0	1	TCGGGGTGGC	11070	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGGGGAAAT	11071	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGGCATTG	11072	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGGCTAGT	11073	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCGGGGACGG	11074	0.0	#DIV/0!	0.0
0	0	1	TCGGGGTACG	11075	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGGTAATAA	11076	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGTACGTCA	11077	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGTACTGGT	11078	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGTACTGTT	11079	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGTAGAAAA	11080	#DIV/0!	0.0	#DIV/0!
0	0	0	TCGTAGTAAA	11081	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGTCAACAA	11082	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGTCCGGTT	11083	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCGTCTATT	11084	0.0	#DIV/0!	0.0
0	0	1	TCGTCTTTC	11085	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGTGAATGA	11086	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TCGTGCTGTG	11087	0.0	#DIV/0!	0.0
0	1	0	TCGTGGTGGGA	11088	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGTGGGTA	11089	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGTGTTAA	11090	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGTTAGAAG	11091	0.0	#DIV/0!	0.0
-1	0	0	TCGTTCACT	11092	0.0	#DIV/0!	0.0
1	0	0	TCGTTCATCT	11093	0.0	#DIV/0!	0.0
-1	0	0	TCGTTGGAGC	11094	0.0	#DIV/0!	0.0
0	0	1	TCGTTTACTG	11095	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCGTTTGCC	11096	0.0	#DIV/0!	0.0
0	0	1	TCTAAGAAA	11097	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTAAGAAGT	11098	0.0	#DIV/0!	0.0
0	1	0	TCTAAGACCG	11099	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTAAGATGG	11100	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTAAGTATA	11101	0.0	#DIV/0!	0.0
1	0	0	TCTAAGTCCC	11102	0.0	#DIV/0!	0.0
0	1	0	TCTAAGTCTG	11103	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTATTACC	11104	0.0	#DIV/0!	0.0
-1	0	0	TCTACAACCT	11105	0.0	#DIV/0!	0.0
0	1	0	TCTACCGATA	11106	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCTACCTCGA	11107	0.0	#DIV/0!	0.0
0	1	0	TCTACTAAAT	11108	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCTACTTAC	11109	0.0	#DIV/0!	0.0
0	0	1	TCTAGAAGT	11110	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTAGGGCCA	11111	#DIV/0!	0.0	#DIV/0!
0	-1	0	TCTAGGGTAC	11112	#DIV/0!	0.0	#DIV/0!
0	-1	0	TCTAGCTCT	11113	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTAGGAAGT	11114	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TCTAGGGATT	11115	#DIV/0!	0.0	
0	1	0	TCTAGGGTCC	11116	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTAGTTAA	11117	0.0	#DIV/0!	0.0
-1	0	0	TCTATATGGT	11118	0.0	#DIV/0!	0.0
1	0	0	TCTATGAAT	11119	0.0	#DIV/0!	0.0
0	1	0	TCTATGTCTA	11120	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTATGTGGT	11121	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTATGTGTT	11122	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTCAACTGG	11123	0.0	#DIV/0!	0.0
0	1	0	TCTCAAGCTG	11124	#DIV/0!	0.0	#DIV/0!
0	-1	0	TCTCAAGGTA	11125	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCAGTAAT	11126	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTCCACCTA	11127	0.0	#DIV/0!	0.0
0	0	1	TCTCCACTGG	11128	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTCCAGAGA	11129	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTCCAGGAA	11130	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCCATAAC	11131	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTCCCAGAG	11132	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTCCCGAAG	11133	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCTCCGGGA	11134	0.0	#DIV/0!	0.0
1	0	0	TCTCTATAAA	11135	0.0	#DIV/0!	0.0
1	0	0	TCTCTCGTT	11136	0.0	#DIV/0!	0.0
0	1	0	TCTGTACAT	11137	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTCTAAAGG	11138	0.0	#DIV/0!	0.0
-1	0	0	TCTCTACAGG	11139	0.0	#DIV/0!	0.0
-1	0	0	TCTCTACGGG	11140	0.0	#DIV/0!	0.0
1	0	0	TCTCTACTTT	11141	0.0	#DIV/0!	0.0
0	1	0	TCTCTATAAA	11142	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TCTCTATAA	11143	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTCTCCTCA	11144	0.0	#DIV/0!	0.0
0	1	0	TCTCTCTGG	11145	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCTGACGA	11146	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTCTGCCAG	11147	0.0	#DIV/0!	0.0
0	1	0	TCTCTGCTGG	11148	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCTTTGCC	11149	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGAAAAAA	11150	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGAAATTG	11151	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGAAGACC	11152	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCTGACGTGC	11153	0.0	#DIV/0!	0.0
0	1	0	TCTGACTGGG	11154	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTGACTTCC	11155	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTGAGATGG	11156	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGATCTG	11157	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGCAAATA	11158	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCTGGGTGAA	11159	0.0	#DIV/0!	0.0
0	1	0	TCTGGTGTG	11160	#DIV/0!	0.0	#DIV/0!
-1	0	0	TCTGGATCTC	11161	0.0	#DIV/0!	0.0
0	1	0	TCTGGCTGGC	11162	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTGGGGAAA	11163	0.0	#DIV/0!	0.0
0	0	1	TCTGGGTGTA	11164	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGCGAAC	11165	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGTCGAGA	11166	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGTGACCA	11167	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGTGTCCA	11168	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTGTTGACA	11169	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTGTTGGGG	11170	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TCTGGTGTCA	11171	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTGGTGGC	11172	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTTAAGAAT	11173	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTACATAT	11174	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTACCAAA	11175	0.0	#DIV/0!	0.0
0	0	1	TCTTACCCAT	11176	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTATCATT	11177	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTATTATC	11178	0.0	#DIV/0!	0.0
1	0	0	TCTTCAAAGA	11179	0.0	#DIV/0!	0.0
0	0	0	TCTTCAACTT	11180	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTTCATTAC	11181	0.0	#DIV/0!	0.0
0	0	1	TCTTCCAAAA	11182	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTTCCCCACT	11183	0.0	#DIV/0!	0.0
-1	0	0	TCTTCGACAA	11184	0.0	#DIV/0!	0.0
-1	0	0	TCTTCCTCGTC	11185	0.0	#DIV/0!	0.0
0	0	0	TCTTCCTTCAG	11186	0.0	#DIV/0!	0.0
0	1	0	TCTTCTTCTT	11187	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTAAAAAA	11188	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTGAACTG	11189	0.0	#DIV/0!	0.0
0	1	0	TCTTGACCGT	11190	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGAGAAA	11191	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGAGAAC	11192	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTGAGGAT	11193	0.0	#DIV/0!	0.0
0	0	-1	TCTTGGAAAT	11194	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTTGTAGAA	11195	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTGTAGGA	11196	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGTGAAA	11197	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGTGGTT	11198	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TCTTTAATGG	11199	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTTTACCGG	11200	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTTATGTA	11201	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTTATTA	11202	0.0	#DIV/0!	0.0
0	0	1	TCTTTCCTGA	11203	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TCTTTGTCTA	11204	0.0	#DIV/0!	#DIV/0!
0	0	1	TCTTTGTGT	11205	#DIV/0!	#DIV/0!	0.0
1	0	0	TCTTTATA	11206	0.0	#DIV/0!	#DIV/0!
1	0	0	TCTTTTCAC	11207	0.0	#DIV/0!	0.0
0	0	1	TCTTTTGTA	11208	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAAAACTTT	11209	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAAAAGAAG	11210	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAAAATGTA	11211	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAAACGGGTG	11212	#DIV/0!	0.0	#DIV/0!
-1	0	1	TGAAATTATG	11213	0.0	#DIV/0!	0.0
0	0	1	TGAACAACAT	11214	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAACAATGT	11215	0.0	#DIV/0!	#DIV/0!
0	1	0	TGAACAGCGG	11216	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAACTCTAA	11217	#DIV/0!	0.0	#DIV/0!
0	0	0	TGAACTTTTC	11218	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAAGGAACA	11219	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAAGGTGAT	11220	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGAATCAAAA	11221	0.0	#DIV/0!	0.0
0	0	1	TGAATGCCTG	11222	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAATTAGTG	11223	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAATTGACT	11224	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAATTTCAT	11225	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAATTTCGC	11226	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TGACAAAAACT	11227	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGACAAACTG	11228	0.0	#DIV/0!	0.0
0	0	1	TGACAACTAT	11229	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACAACTGT	11230	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGACAAGAAT	11231	0.0	#DIV/0!	0.0
0	0	1	TGACAAGGCCT	11232	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACACATTC	11233	#DIV/0!	0.0	#DIV/0!
0	0	1	TGACAGGGAAA	11234	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACATAAGT	11235	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACCAAAACA	11236	#DIV/0!	0.0	#DIV/0!
0	0	1	TGACGGGCTGA	11237	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACGGTTTG	11238	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGACTCTGGTG	11239	0.0	#DIV/0!	0.0
0	0	1	TGACTCTGGG	11240	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACTGGTAT	11241	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAGATCCGA	11242	#DIV/0!	0.0	#DIV/0!
1	0	0	TGAGATCGGG	11243	0.0	#DIV/0!	0.0
1	0	0	TGAGCACAAT	11244	0.0	#DIV/0!	0.0
0	1	0	TGAGCATATC	11245	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAGGCCCTCG	11246	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAGCGTTGA	11247	#DIV/0!	0.0	#DIV/0!
1	0	0	TGAGCTTAGA	11248	0.0	#DIV/0!	0.0
0	0	1	TGAGGGTGTGTA	11249	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAGGTAAGT	11250	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAGGTGATA	11251	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAGTAGGAG	11252	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAGTATATA	11253	#DIV/0!	0.0	#DIV/0!
1	0	0	TGAGTGGTCA	11254	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TGAGTGTCTA	11255	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAGTTAGAG	11256	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGATAATGAT	11257	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGATAATGTC	11258	0.0	#DIV/0!	#DIV/0!	0.0
1	1	0	TGATACCAAG	11259	0.0	#DIV/0!	#DIV/0!	0.0
1	1	0	TGATAGCAGT	11260	0.0	#DIV/0!	#DIV/0!	0.0
0	0	1	TGATATCAGA	11261	#DIV/0!	0.0	#DIV/0!	0.0
0	0	1	TGATATCAGT	11262	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGATATGTAA	11263	0.0	#DIV/0!	#DIV/0!	0.0
1	1	0	TGATCAAAAA	11264	0.0	#DIV/0!	#DIV/0!	0.0
0	0	1	TGATCAAGCG	11265	#DIV/0!	0.0	#DIV/0!	0.0
1	1	0	TGATCGGGTG	11266	0.0	#DIV/0!	#DIV/0!	0.0
0	0	1	TGATCGTTTG	11267	#DIV/0!	#DIV/0!	#DIV/0!	0.0
0	0	1	TGATCTGGAC	11268	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGATCTTAAG	11269	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	TGATCTTCCT	11270	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	0	1	TGATGACTCT	11271	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGATGGTCGG	11272	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGATTATAACA	11273	0.0	#DIV/0!	#DIV/0!	0.0
1	1	0	TGATTATACC	11274	0.0	#DIV/0!	#DIV/0!	0.0
0	0	1	TGATTATCCC	11275	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGATTATTAG	11276	0.0	#DIV/0!	#DIV/0!	0.0
0	1	0	TGATTCCCCCA	11277	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	TGATTCTCTC	11278	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	TGATTCTGTGTT	11279	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	TGATTGCCGT	11280	#DIV/0!	0.0	#DIV/0!	#DIV/0!
0	1	0	TGATTGGTGTG	11281	#DIV/0!	0.0	#DIV/0!	#DIV/0!
1	1	0	TGCAAATAAA	11282	0.0	#DIV/0!	#DIV/0!	0.0

Table 5, cont.

0	1	0	TGCAAGAACAA	11283	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCAATTGGC	11284	#DIV/0!	0.0	#DIV/0!
-1	0	0	TGCACAGAAC	11285	0.0	#DIV/0!	0.0
0	0	1	TGCACCTCTT	11286	#DIV/0!	0.0	#DIV/0!
0	0	0	TGCACTAGTA	11287	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TGCAAGAAGAG	11288	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TGCAAGAAC	11289	0.0	#DIV/0!	0.0
0	0	1	TGCAGGGCT	11290	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGCAGTCAA	11291	0.0	#DIV/0!	0.0
1	1	0	TGCAGTTAG	11292	0.0	#DIV/0!	0.0
1	1	0	TGCATATCCG	11293	0.0	#DIV/0!	0.0
0	0	1	TGCATCACCA	11294	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCATCTTA	11295	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCATTATTG	11296	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCATTGATA	11297	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCCAACAAA	11298	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCAAGGAT	11299	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCACGAAC	11300	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCACTATT	11301	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCAGCGAGA	11302	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCATCTAT	11303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCATTATA	11304	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCCCGTACA	11305	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCCCTGTGG	11306	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGCCCTTGAT	11307	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCCGACTAC	11308	0.0	#DIV/0!	0.0
0	1	0	TGCCGCCCTC	11309	#DIV/0!	0.0	#DIV/0!
-1	0	0	TGCGTCCAT	11310	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TGCCGTGGG	11311	#DIV/0!	0.0		#DIV/0!
1	0	0	TGCCCTATGCT	11312	0.0	#DIV/0!	0.0	
0	0	1	TGCCCTTAA	11313	#DIV/0!	#DIV/0!	#DIV/0!	
0	-1	0	TGCCCTAGGG	11314	#DIV/0!	0.0	#DIV/0!	
0	-1	0	TGCCCTCTGGG	11315	#DIV/0!	0.0	#DIV/0!	
-1	0	0	TGCCCTGGACT	11316	0.0	#DIV/0!	0.0	
1	1	0	TGCCCTGGTAC	11317	0.0	#DIV/0!	0.0	
0	0	1	TGCCCTTATGT	11318	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TGCCCTCGTC	11319	#DIV/0!	#DIV/0!	#DIV/0!	
-1	1	0	TGCCCTTGTGG	11320	0.0	#DIV/0!	0.0	
0	0	1	TGCCCTTGTG	11321	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	TGCCCTTTCA	11322	0.0	#DIV/0!	#DIV/0!	
1	-1	0	TGCCACTCAA	11323	0.0	#DIV/0!	0.0	
0	0	1	TGCAGAGATA	11324	#DIV/0!	0.0	#DIV/0!	
0	0	1	TGCCGAAACT	11325	#DIV/0!	#DIV/0!	#DIV/0!	
-1	1	0	TGCCGAGCAG	11326	0.0	#DIV/0!	0.0	
0	0	1	TGCCCTTCT	11327	#DIV/0!	0.0	#DIV/0!	
-1	1	0	TGCCGACCTT	11328	0.0	#DIV/0!	0.0	
0	0	1	TGCCGGTCAC	11329	#DIV/0!	0.0	#DIV/0!	
0	0	1	TGCCGTCAGC	11330	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TGCCTGCAAT	11331	0.0	#DIV/0!	0.0	
0	0	1	TGCCGTGGTG	11332	#DIV/0!	0.0	#DIV/0!	
1	1	0	TGCCGTGGACC	11333	0.0	#DIV/0!	0.0	
0	0	1	TGCCGTGGACT	11334	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TGCCGTGGGG	11335	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	TGCCTTAAA	11336	0.0	#DIV/0!	0.0	
1	1	0	TGCCTTAAAT	11337	0.0	#DIV/0!	0.0	
1	1	0	TGCCTTATGG	11338	0.0	#DIV/0!	0.0	

Table 5, cont.

0	1	0	TGCCTTGTCG	11339	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCTAAAGGT	11340	0.0	#DIV/0!	0.0
0	1	0	TGCATTGAT	11341	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCATTTC	11342	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCCTAAAAA	11343	0.0	#DIV/0!	0.0
0	1	0	TGCTCAGCGC	11344	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCTCTTCGC	11345	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCTGACAAC	11346	0.0	#DIV/0!	0.0
0	0	1	TGCTGAGAAC	11347	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCTGCCCGC	11348	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCTGTCACA	11349	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCTGTTGTT	11350	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGCTTAACTA	11351	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCTTCAACT	11352	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCTTCCCCCT	11353	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCTTGTATT	11354	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGAACTACC	11355	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGAACCTCT	11356	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAAGAGGA	11357	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAAGGCTAG	11358	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGAAGGCTTC	11359	0.0	#DIV/0!	0.0
0	0	1	TGGATGGAC	11360	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGAATGTGG	11361	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGACACCGT	11362	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGACACCTT	11363	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGACTACCG	11364	0.0	#DIV/0!	0.0
0	1	0	TGGAGAAATGT	11365	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAGATCAA	11366	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TGGAGGTTTG	11367	0.0	#DIV/0!	0.0
1	0	0	TGGAGTACTC	11368	0.0	#DIV/0!	0.0
0	1	0	TGGAGTAGAA	11369	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAGTATAT	11370	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGAGTATGG	11371	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGAGTCCT	11372	0.0	#DIV/0!	0.0
0	0	1	TGGAGTCGTG	11373	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGAGTGAGA	11374	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGATAAAGA	11375	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGATCATAT	11376	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGATGAACC	11377	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGATGACGA	11378	0.0	#DIV/0!	0.0
0	0	1	TGGATTGTTG	11379	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCACCCCTG	11380	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCACCTAG	11381	0.0	#DIV/0!	0.0
0	0	1	TGGCACTGG	11382	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGCAGTCTA	11383	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCATTCTG	11384	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGCATTCTC	11385	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGCCACCAG	11386	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCCACCAT	11387	0.0	#DIV/0!	0.0
1	0	0	TGGCGAAAAA	11388	0.0	#DIV/0!	0.0
0	1	0	TGGCGAACTC	11389	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCGACAAG	11390	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCGATATT	11391	0.0	#DIV/0!	0.0
0	1	0	TGGCGATGGA	11392	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCGCCGCA	11393	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCGTGGTG	11394	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TGGCTAATA	11395	#DIV/0!	0.0
0	1	0	TGGCTCTTTG	11396	#DIV/0!	0.0
0	1	0	TGGCTGGTG	11397	#DIV/0!	0.0
1	0	0	TGGCTAAA	11398	#DIV/0!	0.0
1	0	0	TGGCTTGGA	11399	#DIV/0!	0.0
0	0	1	TGGAAATT	11400	#DIV/0!	#DIV/0!
1	0	0	TGGAACGAC	11401	#DIV/0!	0.0
0	0	1	TGGACACTG	11402	#DIV/0!	#DIV/0!
0	0	1	TGGAGGTGA	11403	#DIV/0!	#DIV/0!
0	0	1	TGGAGTACC	11404	#DIV/0!	#DIV/0!
0	0	1	TGGATGGAC	11405	#DIV/0!	#DIV/0!
0	0	1	TGGCTATCT	11406	#DIV/0!	#DIV/0!
0	0	1	TGGCTTGGA	11407	#DIV/0!	#DIV/0!
0	0	1	TGGGAAACTG	11408	#DIV/0!	#DIV/0!
0	1	0	TGGGACTCG	11409	#DIV/0!	0.0
0	0	1	TGGGCCTGG	11410	#DIV/0!	#DIV/0!
0	0	1	TGGGTGAGG	11411	#DIV/0!	0.0
1	0	0	TGGGTGCGA	11412	#DIV/0!	0.0
0	0	1	TGGGTTGTG	11413	#DIV/0!	#DIV/0!
0	1	0	TGGTAAGCA	11414	#DIV/0!	0.0
1	0	0	TGGTAGTGA	11415	#DIV/0!	0.0
0	1	0	TGGTGCTCT	11416	#DIV/0!	0.0
1	0	0	TGGGTGCTA	11417	#DIV/0!	0.0
1	0	0	TGGGTGTGGA	11418	#DIV/0!	0.0
0	1	0	TGGGTGGGA	11419	#DIV/0!	#DIV/0!
0	0	1	TGGGTGGTG	11420	#DIV/0!	0.0
0	0	1	TGGGTGGGG	11421	#DIV/0!	#DIV/0!
0	0	1	TGGGTTTTG	11422	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TGGTAAATAA	11423	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTAAGGTG	11424	0.0	#DIV/0!	0.0
1	0	0	TGGTACTAGA	11425	0.0	#DIV/0!	0.0
0	1	0	TGGTACTATT	11426	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGTAGAGAA	11427	0.0	#DIV/0!	0.0
0	1	0	TGGTAGCGGT	11428	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGTATTAGG	11429	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTCATAAA	11430	0.0	#DIV/0!	0.0
0	1	0	TGGTCATTA	11431	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGTCCCACA	11432	0.0	#DIV/0!	0.0
1	0	0	TGGTCGAAGA	11433	0.0	#DIV/0!	0.0
1	0	0	TGGTCGAGCC	11434	0.0	#DIV/0!	0.0
1	0	0	TGGTCGGCTGT	11435	0.0	#DIV/0!	0.0
0	0	1	TGGTCGGAGA	11436	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGTCTCTTA	11437	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGTGAAATA	11438	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGTGAAATG	11439	0.0	#DIV/0!	0.0
0	0	1	TGGTGAAATT	11440	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTGACTGT	11441	0.0	#DIV/0!	0.0
0	0	1	TGGTGATTTA	11442	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGTGGGGCT	11443	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGTGGAAAA	11444	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGTGGAAAT	11445	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTGGAGTC	11446	0.0	#DIV/0!	0.0
0	1	0	TGGTGTAGT	11447	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGTTAAAAA	11448	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGTTAAAAT	11449	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGTTGAAGG	11450	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TGGTTGCCAA	11451	0.0	#DIV/0!	0.0
0	1	0	TGGTTAAAAA	11452	0.0	#DIV/0!	#DIV/0!
0	-1	0	TGTAATAATT	11453	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTAAAGTTA	11454	0.0	#DIV/0!	#DIV/0!
0	-1	0	TGTAAACCTT	11455	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTAAACGTT	11456	0.0	#DIV/0!	#DIV/0!
0	0	1	TGTAGGAACC	11457	0.0	#DIV/0!	#DIV/0!
1	0	0	TGTAGAAACT	11458	0.0	#DIV/0!	#DIV/0!
0	0	1	TGTAAGTTGG	11459	0.0	#DIV/0!	0.0
0	1	0	TGTATGTATA	11460	0.0	#DIV/0!	#DIV/0!
1	0	0	TGTATTAAC	11461	0.0	#DIV/0!	0.0
0	1	0	TGTACCCAGTT	11462	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTACCGCAGA	11463	0.0	#DIV/0!	#DIV/0!
1	0	0	TGTACCGGGT	11464	0.0	#DIV/0!	0.0
1	0	0	TGTACTACGA	11465	0.0	#DIV/0!	0.0
0	0	1	TGTACTGTATG	11466	0.0	#DIV/0!	#DIV/0!
0	0	1	TGTAGCTACT	11467	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTATAATT	11468	0.0	#DIV/0!	0.0
0	0	1	TGTATACCTA	11469	0.0	#DIV/0!	#DIV/0!
-1	0	0	TGTATATCTA	11470	0.0	#DIV/0!	0.0
0	1	0	TGTATATT	11471	0.0	#DIV/0!	#DIV/0!
0	0	1	TGTATCTGGG	11472	0.0	#DIV/0!	#DIV/0!
0	0	1	TGTATGAAAA	11473	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTATGTAAT	11474	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTATGTACA	11475	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTATTATAT	11476	0.0	#DIV/0!	#DIV/0!
0	0	1	TGTATTCTATA	11477	0.0	#DIV/0!	#DIV/0!
0	1	0	TGTATTTAA	11478	0.0	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TGTCAAATCA	11479	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCAAACGCA	11480	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCAAGTGG	11481	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTCAATCCA	11482	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTCAAGAAA	11483	0.0	#DIV/0!	0.0
0	0	1	TGTCAATTGG	11484	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTCCAATA	11485	0.0	#DIV/0!	0.0
0	0	1	TGTCCACTGC	11486	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTCCCCGATC	11487	0.0	#DIV/0!	0.0
0	0	1	TGTCCCTGTAT	11488	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTGACGAC	11489	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGCTGTG	11490	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTGGAAAT	11491	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGGGGTGG	11492	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTGTTGCTG	11493	0.0	#DIV/0!	0.0
1	1	0	TGTGTTGGCG	11494	0.0	#DIV/0!	0.0
1	1	0	TGTGGTGGTA	11495	0.0	#DIV/0!	0.0
1	1	0	TGTGGGGTC	11496	0.0	#DIV/0!	0.0
0	1	0	TGTGTTGGT	11497	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTCTATCAT	11498	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTCTCAGCA	11499	0.0	#DIV/0!	0.0
0	0	1	TGTCTCGCGA	11500	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTCTCTTGT	11501	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTCTGGTGG	11502	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCTGTATT	11503	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCTTGGGT	11504	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTGACGGCAG	11505	0.0	#DIV/0!	0.0
0	1	0	TGTGACTAGT	11506	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TGTGAGACGG	11507	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTGAGTGAA	11508	0.0	#DIV/0!	0.0
0	1	0	TGTGATTCAA	11509	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGCAGAGG	11510	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGCCATCG	11511	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTGCCCTAAT	11512	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTGCGAAAA	11513	0.0	#DIV/0!	0.0
0	1	0	TGTGCTTGAT	11514	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGGATATG	11515	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGGATTCC	11516	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGGCTCGA	11517	#DIV/0!	0.0	#DIV/0!
1	1	0	TGTGGGAAAC	11518	0.0	#DIV/0!	0.0
0	0	1	TGTGGGTGTA	11519	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTGGTCACT	11520	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TGTGTAAGAA	11521	0.0	#DIV/0!	0.0
0	0	0	TGTGTAGTC	11522	0.0	#DIV/0!	0.0
0	0	0	TGTGTATATT	11523	0.0	#DIV/0!	0.0
0	0	0	TGTGTATGGA	11524	0.0	#DIV/0!	0.0
0	0	0	TGTGTATTA	11525	0.0	#DIV/0!	0.0
0	1	0	TGTGTCGTTG	11526	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGTCTTAC	11527	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGTTATA	11528	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGTGTTACC	11529	0.0	#DIV/0!	0.0
0	1	0	TGTAAAGCA	11530	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTAAACCGA	11531	#DIV/0!	0.0	#DIV/0!
1	0	1	TGTAAAGTAG	11532	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTAAATTAG	11533	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTATAGTT	11534	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TGTTATGATA	11535	0.0	#DIV/0!	0.0
1	0	0	TGTTCAAAAA	11536	0.0	#DIV/0!	0.0
0	0	1	TGTTCAAGAG	11537	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTCACCTG	11538	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTTCCAAA	11539	0.0	#DIV/0!	0.0
0	0	1	TGTTCCACTT	11540	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTTCCGTGG	11541	0.0	#DIV/0!	0.0
1	0	0	TGTTCTTTAA	11542	0.0	#DIV/0!	0.0
0	1	0	TGTTGAACGT	11543	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTGGCTAA	11544	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTGGGGGG	11545	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTGGTTTG	11546	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTTGTATTG	11547	0.0	#DIV/0!	0.0
0	0	1	TGTTGTGGAA	11548	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTTGTGGAC	11549	0.0	#DIV/0!	0.0
1	1	0	TGTTTACTTT	11550	0.0	#DIV/0!	0.0
0	1	1	TGTTTCCCCA	11551	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTTCGATA	11552	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTGGTTC	11553	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTGGTTG	11554	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTTCAGA	11555	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTTCCCG	11556	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTTCTTG	11557	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTTGAA	11558	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTTTCAG	11559	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTTTTGAT	11560	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TGTTTTGGA	11561	0.0	#DIV/0!	0.0
1	0	0	TGTTTTTGG	11562	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TTAAAAAGTT	11563	0.0	#DIV/0!	0.0
0	0	1	TTAAAACGAA	11564	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAAAATAAA	11565	0.0	#DIV/0!	0.0
0	1	0	TTAAAATATG	11566	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAAAATGGG	11567	0.0	#DIV/0!	0.0
0	1	0	TTAAACCCTT	11568	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAACCGGTA	11569	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAACGGTT	11570	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAACTACC	11571	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAAACTGAG	11572	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAAAGAAA	11573	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAAGTTT	11574	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAATTCTAT	11575	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAAATTTTT	11576	0.0	#DIV/0!	0.0
-1	1	0	TTAACAAACAA	11577	0.0	#DIV/0!	0.0
1	0	1	TTAACAACTA	11578	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTAACGAAGC	11579	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAACGGCCC	11580	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAACGGCG	11581	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAACGGCTG	11582	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAACCTGGC	11583	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAACCTTTT	11584	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAGCCATC	11585	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAGCGCCT	11586	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAGCTATC	11587	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TTAAGGTTA	11588	0.0	#DIV/0!	0.0
-1	0	0	TTAAGTAACT	11589	0.0	#DIV/0!	0.0
1	0	0	TTAAGTATCG	11590	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTAAGTCACG	11591	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAAGTGAAT	11592	0.0	#DIV/0!	0.0
0	0	1	TTAAGTTTC	11593	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAAATAATCA	11594	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAATGACCT	11595	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAATTGGTAT	11596	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAATTAGAG	11597	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAATTAGTT	11598	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAATTATGG	11599	#DIV/0!	0.0	#DIV/0!
1	1	0	TTAAATTCCA	11600	0.0	#DIV/0!	0.0
1	1	0	TTAAATTTTAT	11601	0.0	#DIV/0!	0.0
0	0	1	TTACAAAAAA	11602	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTACAATCGG	11603	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTACAATTAA	11604	0.0	#DIV/0!	0.0
1	1	0	TTACAGGGTTG	11605	#DIV/0!	0.0	#DIV/0!
0	0	1	TTACCAAGTC	11606	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTACCTGAAT	11607	#DIV/0!	0.0	#DIV/0!
0	0	1	TTACGCACAT	11608	#DIV/0!	0.0	#DIV/0!
1	1	0	TTACGGGTGCC	11609	0.0	#DIV/0!	0.0
0	1	0	TTACTAAAAA	11610	#DIV/0!	0.0	#DIV/0!
0	1	0	TTACTAACAT	11611	#DIV/0!	0.0	#DIV/0!
0	0	1	TTACTAGCCT	11612	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTACTAGTAT	11613	#DIV/0!	0.0	#DIV/0!
1	1	0	TTACTGAGGG	11614	0.0	#DIV/0!	0.0
0	0	1	TTACTGCAAT	11615	#DIV/0!	0.0	#DIV/0!
1	1	0	TTACTGTAAC	11616	0.0	#DIV/0!	0.0
0	0	1	TTACCTGGC	11617	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTACTTCTA	11618	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TTACTTTTGA	11619	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTACCTTTTA	11620	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGAAAGCC	11621	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGAATAAG	11622	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGACCTTT	11623	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGACGGG	11624	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGGGTG	11625	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGAGTCAA	11626	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGATATTG	11627	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGATGAAG	11628	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGATTAT	11629	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGCAATAT	11630	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAGCCCTAT	11631	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAGCGAAAT	11632	0.0	#DIV/0!	0.0
0	0	1	TTAGCTGCCA	11633	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGCTGCTG	11634	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGCTCTA	11635	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGGAAGTT	11636	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAGGTCTA	11637	0.0	#DIV/0!	0.0
0	1	0	TTAGTAGAAT	11638	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGCTCTA	11639	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAGTCTGAC	11640	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAGTGAAAA	11641	0.0	#DIV/0!	0.0
0	1	0	TTAGTGAAGA	11642	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAGTGAATA	11643	0.0	#DIV/0!	0.0
0	1	0	TTAGTGTCAA	11644	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGTTCGAA	11645	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGTTATA	11646	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TTAGTTCAA	11647	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGTTCGA	11648	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAGTTCTC	11649	0.0	#DIV/0!	0.0
0	0	1	TTATAAGAAG	11650	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATAAGAAT	11651	#DIV/0!	0.0	#DIV/0!
1	0	0	TTATAAGTCA	11652	0.0	#DIV/0!	0.0
0	0	1	TTATAATGAA	11653	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATAATTGA	11654	#DIV/0!	0.0	#DIV/0!
1	0	0	TTATACATT	11655	0.0	#DIV/0!	0.0
-1	0	0	TTATAGAATG	11656	0.0	#DIV/0!	0.0
1	0	0	TTATAGATGC	11657	0.0	#DIV/0!	0.0
1	0	0	TTATAGATT	11658	0.0	#DIV/0!	0.0
0	1	0	TTATAGTATA	11659	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATAGTGAA	11660	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATATATAT	11661	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATATTGAC	11662	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATCAAAA	11663	#DIV/0!	0.0	#DIV/0!
0	0	1	TTATCAAAGG	11664	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATCAAATG	11665	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATCATATA	11666	#DIV/0!	0.0	#DIV/0!
0	0	1	TTATCCCTTG	11667	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTATCGTCAA	11668	0.0	#DIV/0!	0.0
0	0	1	TTATCGTGTCA	11669	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTATCGTGTG	11670	0.0	#DIV/0!	0.0
1	1	0	TTATCGTGG	11671	0.0	#DIV/0!	0.0
1	1	0	TTATCTATAA	11672	0.0	#DIV/0!	0.0
0	1	0	TTATCTATT	11673	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATGAAGGA	11674	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TTATGCTTAG	11675	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATGCTTC	11676	#DIV/0!	0.0	#DIV/0!
1	1	0	TTATGGAGTG	11677	0.0	#DIV/0!	0.0
1	1	0	TTATGGATCT	11678	0.0	#DIV/0!	0.0
1	1	0	TTATGGCTAT	11679	0.0	#DIV/0!	0.0
-1	0	0	TTATGGGTGC	11680	0.0	#DIV/0!	0.0
0	0	1	TTATGGTAGG	11681	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TTATTAAAA	11682	0.0	#DIV/0!	0.0
-1	0	0	TTATTAATGA	11683	0.0	#DIV/0!	0.0
0	0	1	TTATTACCCA	11684	#DIV/0!	0.0	#DIV/0!
0	0	1	TTATTATGCC	11685	#DIV/0!	0.0	#DIV/0!
0	0	0	TTATCAAGA	11686	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTATTCCCA	11687	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTATTGAGGC	11688	0.0	#DIV/0!	0.0
1	1	0	TTATTGATAT	11689	0.0	#DIV/0!	0.0
1	1	0	TTATTGATGC	11690	0.0	#DIV/0!	0.0
0	0	0	TTATTTCGGT	11691	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTATTTCTTT	11692	#DIV/0!	0.0	#DIV/0!
1	1	0	TTATTTGCC	11693	0.0	#DIV/0!	0.0
0	0	1	TTATTTTCA	11694	#DIV/0!	0.0	#DIV/0!
0	0	1	TTATTTTGC	11695	#DIV/0!	0.0	#DIV/0!
-1	1	0	TTCAAAAAAA	11696	0.0	#DIV/0!	0.0
0	0	1	TTCAAAAATC	11697	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCAAAAGAC	11698	#DIV/0!	0.0	#DIV/0!
1	1	0	TTCAAAAGAG	11699	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TTCAAAAGCA	11700	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCAAAAGGA	11701	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCAACAAGG	11702	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TTCAACCGT	11703	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCAAGACTC	11704	0.0	#DIV/0!	0.0
1	1	0	TTCAAGCCCC	11705	0.0	#DIV/0!	0.0
0	0	1	TTCAAGGAGA	11706	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCAAGTAAA	11707	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCAAGTTGC	11708	0.0	#DIV/0!	0.0
0	1	0	TTCAATTCTT	11709	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCACAAATGC	11710	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCACATAAG	11711	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCACCCAATT	11712	#DIV/0!	0.0	#DIV/0!
1	1	0	TTCACCCCAAAC	11713	0.0	#DIV/0!	0.0
1	1	0	TTCACCTTAAG	11714	0.0	#DIV/0!	0.0
0	0	1	TTCACTGAAT	11715	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCACTTAAC	11716	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCACTTTCA	11717	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCACTTTT	11718	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCAGAAAAA	11719	0.0	#DIV/0!	0.0
0	0	1	TTCAGAAGG	11720	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCAGGGAT	11721	0.0	#DIV/0!	0.0
0	1	0	TTCAGGTGAA	11722	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCAGGAAAAA	11723	0.0	#DIV/0!	0.0
1	1	0	TTCAGGTCA	11724	0.0	#DIV/0!	0.0
1	1	0	TTCAGGTTT	11725	0.0	#DIV/0!	0.0
0	1	0	TTCAGTGAAA	11726	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCAGTTCGA	11727	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCATAAAGGA	11728	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCATACCAA	11729	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCAATTCACT	11730	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTCATTCTCT	11731	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCCAATAT	11732	0.0	#DIV/0!	0.0
1	0	0	TTCCAATAAA	11733	0.0	#DIV/0!	0.0
0	1	0	TTCCAATGAT	11734	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCACAAATT	11735	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCACTCCT	11736	0.0	#DIV/0!	0.0
1	0	0	TTCCACTTGG	11737	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCCAGGCC	11738	0.0	#DIV/0!	0.0
1	0	0	TTCCAGTAAC	11739	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCATATAG	11740	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCCATCTGA	11741	0.0	#DIV/0!	0.0
1	0	0	TTCCCACACT	11742	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCAGAAT	11743	0.0	#DIV/0!	0.0
1	0	0	TTCCCCAAGT	11744	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCCAATA	11745	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCCCCACTA	11746	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCGTTAC	11747	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCCTTTT	11748	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCCGGGGA	11749	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCCGGAGATC	11750	0.0	#DIV/0!	0.0
0	1	0	TTCCGGATAA	11751	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCCCTAAAAA	11752	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTTAATT	11753	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCCCTCGCCT	11754	#DIV/0!	0.0	#DIV/0!
1	1	0	TTCCCTCTAAA	11755	0.0	#DIV/0!	0.0
1	1	0	TTCCCTGACCG	11756	0.0	#DIV/0!	0.0
0	1	0	TTCCCTGTGTG	11757	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCTCCCT	11758	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TTCGAATTAG	11759	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGAGACAA	11760	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGAGTTG	11761	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGATCCAA	11762	#DIV/0!	0.0	#DIV/0!
1	1	0	TTGATCTTT	11763	0.0	#DIV/0!	0.0
0	0	1	TTGGCAACTT	11764	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGCTAGAA	11765	#DIV/0!	0.0	#DIV/0!
1	1	0	TTGGCTGATT	11766	0.0	#DIV/0!	0.0
0	0	1	TTGGCTGTCC	11767	#DIV/0!	0.0	#DIV/0!
1	1	0	TTGGCTTTT	11768	0.0	#DIV/0!	0.0
0	0	1	TTGGGAGATT	11769	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTGGGGTC	11770	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTGGGCCAC	11771	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTGGGGTCA	11772	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTGGGGTCCA	11773	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGGTCTC	11774	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGTAGTAG	11775	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGTATTAC	11776	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGTGATCC	11777	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGTTAAC	11778	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTGGTCACA	11779	0.0	#DIV/0!	0.0
1	1	0	TTGGTCATT	11780	0.0	#DIV/0!	0.0
1	1	0	TTGGTTCCCT	11781	0.0	#DIV/0!	0.0
1	1	0	TTCTAATA	11782	0.0	#DIV/0!	0.0
1	1	0	TTCTACAACA	11783	0.0	#DIV/0!	0.0
0	0	1	TTCTATGCTT	11784	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTATGTCT	11785	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCTATTAGC	11786	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TTCATTGGA	11787	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCTATCAA	11788	0.0	#DIV/0!	0.0
0	1	0	TTCTCGTACT	11789	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCTCTAAGA	11790	0.0	#DIV/0!	0.0
0	1	0	TTCTCTTCAC	11791	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTGTATGAG	11792	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTGTATGTT	11793	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTGCAAGT	11794	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTGCAGTC	11795	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTCTGCTATC	11796	0.0	#DIV/0!	0.0
1	1	0	TTCTGCTTAA	11797	0.0	#DIV/0!	0.0
0	0	0	TTCTGCTTAG	11798	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTCTGTACAA	11799	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCTGTTGCA	11800	#DIV/0!	0.0	#DIV/0!
1	1	0	TTCTTAATGG	11801	0.0	#DIV/0!	0.0
0	1	0	TTCTTAGACA	11802	#DIV/0!	0.0	#DIV/0!
0	0	0	TTCTTATACA	11803	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCTCTTAC	11804	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTTGATTA	11805	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTCTTCTGAA	11806	0.0	#DIV/0!	0.0
1	1	0	TTCTTTCGAG	11807	0.0	#DIV/0!	0.0
1	1	0	TTGAAAAGAA	11808	0.0	#DIV/0!	0.0
0	0	1	TTGAAAAGAGA	11809	#DIV/0!	0.0	#DIV/0!
0	0	0	TTGAAATAGT	11810	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTGAAATGTG	11811	0.0	#DIV/0!	0.0
0	0	1	TTGAAATTAA	11812	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTGAAATTTC	11813	0.0	#DIV/0!	0.0
1	1	0	TTGAACTATC	11814	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TTGAACTCCC	11815	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGAACTTCC	11816	0.0	#DIV/0!	0.0
1	0	0	TTGAACTTGG	11817	0.0	#DIV/0!	0.0
1	0	0	TTGAAGACAG	11818	0.0	#DIV/0!	0.0
0	0	1	TTGAAGATTA	11819	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGAAGCAGA	11820	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGAAGGATT	11821	0.0	#DIV/0!	0.0
0	1	0	TTGAAGGGGA	11822	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGAAGTTGA	11823	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGATAAACG	11824	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGAATTTC	11825	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGACAAATG	11826	0.0	#DIV/0!	0.0
0	0	1	TTGACAATCC	11827	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGACAATTA	11828	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTGACAGGAA	11829	0.0	#DIV/0!	0.0
0	0	0	TTGACCGAGT	11830	0.0	#DIV/0!	0.0
0	0	1	TTGACCCGTG	11831	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGACCGGAG	11832	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGACCTACC	11833	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGACGGTAA	11834	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGACGTGCA	11835	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGACTAACC	11836	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGACTACCC	11837	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TTGACTCCAC	11838	0.0	#DIV/0!	0.0
0	1	0	TTGACTCGCC	11839	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGACTTCT	11840	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGAGAAATG	11841	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGAGAACGT	11842	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTGAGAACTC	11843	0.0	#DIV/0!	0.0
0	1	0	TTGAGCTACC	11844	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGATACCGT	11845	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGATAGGGT	11846	0.0	#DIV/0!	0.0
0	0	1	TTGATATCAA	11847	#DIV/0!	#DIV/0!	#DIV/0!
0	-1	0	TTGATATGCT	11848	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGATCACGG	11849	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGATCCCGT	11850	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGATCTCAT	11851	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGATGCCAG	11852	0.0	#DIV/0!	0.0
1	0	0	TTGATGGTT	11853	0.0	#DIV/0!	0.0
0	0	1	TTGATGTGAT	11854	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGATGTTAT	11855	0.0	#DIV/0!	0.0
0	0	1	TTGATGTGA	11856	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGATTITGA	11857	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAAAACGA	11858	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGCAAGGCCA	11859	0.0	#DIV/0!	0.0
0	0	1	TTGCAATAGA	11860	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGCAATATC	11861	0.0	#DIV/0!	0.0
1	0	0	TTGCACACAG	11862	0.0	#DIV/0!	0.0
0	1	0	TTGCACAGGC	11863	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCACCCAC	11864	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAAGAGAT	11865	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGCAAGGTGG	11866	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGCAAGTAAT	11867	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGCAAGTGAT	11868	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAATATGG	11869	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAATCCGG	11870	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTGCCAATCT	11871	0.0	#DIV/0!		0.0
0	0	1	TTGCCACTGG	11872	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TTGCCAGGCT	11873	#DIV/0!	0.0	#DIV/0!	
0	1	0	TTGCCATTCT	11874	#DIV/0!	0.0	#DIV/0!	
0	1	0	TTGCCCAAGTC	11875	#DIV/0!	0.0	#DIV/0!	
1	0	0	TTGCCCAATT	11876	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGCCCAACA	11877	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	TTGCCGGTCT	11878	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGCCGTACA	11879	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	TTGCCGTATC	11880	0.0	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCCCTCAGT	11881	#DIV/0!	0.0	#DIV/0!	
0	0	1	TTGCCCTCTT	11882	#DIV/0!	0.0	#DIV/0!	
1	0	0	TTGCCGATAGA	11883	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGCCGTCAAT	11884	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TTGCTTAGGCA	11885	#DIV/0!	0.0	#DIV/0!	
0	1	0	TTGCTAGTCT	11886	#DIV/0!	0.0	#DIV/0!	
0	0	1	TTGCCTCCACC	11887	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TTGCTCTGGG	11888	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TTGCTCTTGG	11889	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TTGCTGTACT	11890	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TTGCTGGTGA	11891	#DIV/0!	0.0	#DIV/0!	
0	0	1	TTGCTGTGG	11892	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TTGCCTTCATT	11893	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TTGCTTTGGG	11894	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	TTGAAAAAT	11895	0.0	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGAAAAGA	11896	0.0	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGAACATC	11897	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TTGGAAGGAT	11898	#DIV/0!	#DIV/0!	#DIV/0!	

Table 5, cont.

0	1	0	TTGGAATT	11899	#DIV/0!	0.0
0	1	0	TTGGACAGGA	11900	#DIV/0!	0.0
0	0	1	TTGGACCCAC	11901	#DIV/0!	#DIV/0!
0	0	1	TTGGACCTTG	11902	#DIV/0!	#DIV/0!
1	0	0	TTGGAGAAGA	11903	0.0	#DIV/0!
0	1	0	TTGGAGAATT	11904	#DIV/0!	0.0
1	0	0	TTGGAGTAAG	11905	0.0	#DIV/0!
1	0	0	TTGGATAGCC	11906	0.0	#DIV/0!
1	0	0	TTGGATGTCA	11907	0.0	#DIV/0!
1	0	0	TTGGATTCTG	11908	0.0	#DIV/0!
0	1	0	TTGGATTTA	11909	#DIV/0!	0.0
1	0	0	TTGGCAAACC	11910	0.0	#DIV/0!
0	1	0	TTGGCAAAAGA	11911	#DIV/0!	0.0
1	0	0	TTGGCAAGGG	11912	0.0	#DIV/0!
0	1	0	TTGGCATCTT	11913	#DIV/0!	#DIV/0!
0	0	1	TTGCCATT	11914	#DIV/0!	0.0
0	0	1	TTGCCCAAC	11915	#DIV/0!	0.0
0	0	1	TTGGCCCCGG	11916	#DIV/0!	#DIV/0!
0	0	1	TTGGCCCCCTC	11917	#DIV/0!	#DIV/0!
0	0	1	TTGGCCTCGC	11918	#DIV/0!	#DIV/0!
0	0	1	TTGGCGATGA	11919	#DIV/0!	#DIV/0!
0	0	1	TTGGGGAAA	11920	#DIV/0!	#DIV/0!
0	0	1	TTGGGGGTTA	11921	#DIV/0!	0.0
0	0	1	TTGGCTGATA	11922	#DIV/0!	#DIV/0!
0	0	1	TTGGCTTCIG	11923	#DIV/0!	0.0
0	0	1	TTGGGAAAAA	11924	#DIV/0!	#DIV/0!
0	1	0	TTGGGCACGCC	11925	#DIV/0!	0.0
1	0	0	TTGGGCCCA	11926	0.0	#DIV/0!
						0.0

Table 5, cont.

0	0	1	TTGGGCTAGG	11927	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGGGGAAATT	11928	0.0	#DIV/0!	0.0
0	0	1	TTGGGGTTGG	11929	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGGGTAAT	11930	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGGTAGAA	11931	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGGGTTAGA	11932	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGGTAAATC	11933	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGGTAACCT	11934	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTGGTAGTGA	11935	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTGGTAGTGT	11936	0.0	#DIV/0!	0.0
-1	0	0	TTGGTATAAT	11937	0.0	#DIV/0!	0.0
-1	0	0	TTGGTCAGT	11938	0.0	#DIV/0!	0.0
0	0	-1	TTGGTCCTG	11939	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGTGCGAGA	11940	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGGTTTCA	11941	0.0	#DIV/0!	0.0
0	1	0	TTGGTTTGG	11942	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTAAGAAG	11943	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTGTAATACG	11944	0.0	#DIV/0!	0.0
0	0	1	TTGTAATCTA	11945	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGTAATTAC	11946	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTGTACCCAGG	11947	0.0	#DIV/0!	0.0
0	-1	0	TTGTACCTTT	11948	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTACTGAA	11949	0.0	#DIV/0!	0.0
-1	0	0	TTGTACTTTG	11950	0.0	#DIV/0!	0.0
0	1	0	TTGTAGTATA	11951	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTATCCTT	11952	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTATTAAG	11953	0.0	#DIV/0!	0.0
0	1	0	TTGTCAAAAT	11954	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TTGTCAAATT	11955	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTCAGAGG	11956	0.0	#DIV/0!	0.0
1	0	0	TTGTCATTGG	11957	0.0	#DIV/0!	0.0
1	0	0	TTGTCCAAAGA	11958	0.0	#DIV/0!	0.0
0	1	0	TTGTCCCCTT	11959	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTCCTGG	11960	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGTCGTGG	11961	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGTCGTGGA	11962	0.0	#DIV/0!	0.0
1	0	0	TTGTCATGG	11963	0.0	#DIV/0!	0.0
1	0	0	TTGTCCTGG	11964	0.0	#DIV/0!	0.0
0	1	0	TTGTCCTTC	11965	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTCCTTG	11966	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTCCTCG	11967	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGTCCTGA	11968	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTAAGAG	11969	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGTGACCAAC	11970	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTGAGGGC	11971	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTGGGCAC	11972	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGGTAGC	11973	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TTGGGTATA	11974	0.0	#DIV/0!	0.0
0	1	0	TTGGGTGG	11975	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGTCAA	11976	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTTATTG	11977	0.0	#DIV/0!	0.0
1	0	0	TTGTCAGGT	11978	0.0	#DIV/0!	0.0
-1	0	0	TTGTCACAA	11979	0.0	#DIV/0!	0.0
0	0	1	TTGTCGTAA	11980	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGTCGTGA	11981	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTCGTTT	11982	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TGTTCTTT	11983	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGTGAAG	11984	0.0	#DIV/0!	0.0
0	1	0	TGGTTACCC	11985	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAAAATG	11986	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TTTAAAACGG	11987	0.0	#DIV/0!	0.0
0	-1	0	TTTAAAATCA	11988	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTTAAAATGC	11989	0.0	#DIV/0!	0.0
0	0	1	TTTAAAGATG	11990	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTTAAAGTGG	11991	0.0	#DIV/0!	0.0
0	0	1	TTTAAATGGT	11992	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTAACACTG	11993	0.0	#DIV/0!	0.0
0	1	0	TTTAACAGCT	11994	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTTAACAGTC	11995	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAACATTA	11996	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAACTGAA	11997	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAACTTGG	11998	#DIV/0!	#DIV/0!	#DIV/0!
0	0	-1	TTTAACTTT	11999	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTAAGATGG	12000	0.0	#DIV/0!	0.0
0	0	1	TTTAAGATTG	12001	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTAAGCTGG	12002	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTAATAATC	12003	0.0	#DIV/0!	0.0
0	0	1	TTTAATAAT	12004	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAATATCT	12005	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTAATAATTG	12006	0.0	#DIV/0!	0.0
1	1	0	TTTAATGACA	12007	0.0	#DIV/0!	0.0
0	0	0	TTTAATTACT	12008	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTAATTGC	12009	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTACAAATG	12010	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTTACATAAA	12011	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCCAGT	12012	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCGATC	12013	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCGCAA	12014	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTACCGCTT	12015	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTACCGGTT	12016	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCTGTT	12017	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACGAAGA	12018	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTTACGATGA	12019	0.0	#DIV/0!	0.0
-1	1	0	TTTACGGCCC	12020	0.0	#DIV/0!	0.0
-1	1	0	TTTACGTATT	12021	0.0	#DIV/0!	0.0
-1	0	0	TTTACTACTG	12022	0.0	#DIV/0!	0.0
-1	0	0	TTTACTATAT	12023	0.0	#DIV/0!	0.0
-1	0	0	TTTACTTACT	12024	0.0	#DIV/0!	0.0
-1	1	0	TTTACTTTCG	12025	0.0	#DIV/0!	0.0
0	1	0	TTTAGAAGAG	12026	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTTAGAATGG	12027	0.0	#DIV/0!	0.0
0	0	1	TTTAGATCCG	12028	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTAGCAGTA	12029	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAGCCAAT	12030	0.0	#DIV/0!	0.0
0	1	0	TTTAGCTACC	12031	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAGTATCT	12032	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTTAGTATT	12033	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTAGTCAA	12034	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTTAGTGAGA	12035	0.0	#DIV/0!	0.0
1	1	0	TTTATAATA	12036	0.0	#DIV/0!	0.0
0	1	0	TTTATCACCA	12037	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTATCTCCC	12038	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTTATGATAA	12039	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTATGTGTA	12040	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAAAGAG	12041	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAAAGGG	12042	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTTCAACAAAG	12043	0.0	#DIV/0!	0.0
0	0	1	TTTCAACTCG	12044	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTCAAGAAA	12045	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAATAAA	12046	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCACAGGA	12047	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCACCATC	12048	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAGGGTT	12049	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCAGGGAA	12050	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAGGGCTA	12051	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTCATAAAT	12052	0.0	#DIV/0!	0.0
0	0	1	TTTCATCGAA	12053	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCATTATC	12054	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCATTGAA	12055	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTCCAACTC	12056	0.0	#DIV/0!	0.0
1	1	0	TTTCCAAGTC	12057	0.0	#DIV/0!	0.0
0	0	1	TTTCCAGAAG	12058	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCCCGAGT	12059	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCCGGCT	12060	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTTCCGGGGC	12061	0.0	#DIV/0!	0.0
1	1	0	TTTCCGGCTAA	12062	0.0	#DIV/0!	0.0
0	0	1	TTTCCCTAGAA	12063	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCTATCT	12064	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCCCTATGA	12065	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCCCTGGCC	12066	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TTTCCCTTTA	12067	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTCGCCCTC	12068	0.0	#DIV/0!	0.0
1	1	0	TTTCGGGAAC	12069	0.0	#DIV/0!	0.0
0	0	0	TTTCGGTTTT	12070	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTCGTCTCC	12071	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCGTTGGT	12072	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCTTAAGCT	12073	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCTACTGG	12074	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTTCTCAAGG	12075	0.0	#DIV/0!	0.0
0	-1	0	TTTCTCAATT	12076	0.0	#DIV/0!	0.0
0	0	1	TTTCTGAGTG	12077	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCTGTATGG	12078	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCTGCCCG	12079	#DIV/0!	0.0	#DIV/0!
0	-1	0	TTTCTGGACA	12080	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCTGGTGG	12081	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCTGTCCG	12082	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTTCTTAGAT	12083	0.0	#DIV/0!	0.0
-1	0	0	TTTCTTATCC	12084	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCTTCGAG	12085	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCTTGTCT	12086	0.0	#DIV/0!	0.0
1	0	0	TTTCTTTCGCC	12087	0.0	#DIV/0!	0.0
1	-1	1	TTTCCTTGAT	12088	#DIV/0!	#DIV/0!	#DIV/0!
0	0	0	TTTGAATAATG	12089	0.0	#DIV/0!	0.0
1	0	0	TTTGAAGACG	12090	0.0	#DIV/0!	0.0
0	0	1	TTTGAAGGCCT	12091	#DIV/0!	0.0	#DIV/0!
-1	0	0	TTTGACAAACA	12092	0.0	#DIV/0!	0.0
0	0	1	TTTGACAAGT	12093	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTTGACCGCA	12094	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTTGACGGTG	12095	#DIV/0!	0.0		#DIV/0!
1	0	0	TTTGGAACT	12096	0.0		#DIV/0!	0.0
1	1	0	TTTGAGTCAG	12097	0.0		#DIV/0!	0.0
1	1	0	TTTGATATTA	12098	0.0		#DIV/0!	0.0
0	0	1	TTTGATTACT	12099	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	TTTGATTATG	12100	#DIV/0!		#DIV/0!	#DIV/0!
1	0	0	TTTGCACACAG	12101	0.0		#DIV/0!	0.0
1	1	0	TTTGCACCTT	12102	0.0		#DIV/0!	0.0
1	1	0	TTTGCATATG	12103	0.0		#DIV/0!	0.0
0	0	0	TTTGCAGGT	12104	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	TTTGCCTGAG	12105	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	TTTGCAGAAC	12106	#DIV/0!		#DIV/0!	#DIV/0!
0	1	0	TTTGCCTACAT	12107	#DIV/0!	0.0		#DIV/0!
1	0	0	TTTGCCTCAC	12108	0.0		#DIV/0!	0.0
0	0	1	TTTGCCTCCCT	12109	#DIV/0!		#DIV/0!	#DIV/0!
0	0	1	TTTGCCTTAA	12110	#DIV/0!	0.0		#DIV/0!
1	1	0	TTTGGAAAT	12111	0.0		#DIV/0!	0.0
0	1	0	TTTGGAGCG	12112	#DIV/0!	0.0		#DIV/0!
0	0	1	TTTGGAGGA	12113	#DIV/0!	0.0		#DIV/0!
0	0	1	TTTGGAGTG	12114	#DIV/0!		#DIV/0!	#DIV/0!
1	1	0	TTTGGCACGT	12115	0.0		#DIV/0!	0.0
0	1	0	TTTGGCAGAT	12116	#DIV/0!	0.0		#DIV/0!
0	1	0	TTTGGCATTT	12117	#DIV/0!	0.0		#DIV/0!
1	1	0	TTTGGCGATA	12118	0.0		#DIV/0!	0.0
1	1	0	TTTGGTACTT	12119	0.0		#DIV/0!	0.0
1	1	0	TTTGGTAGTG	12120	0.0		#DIV/0!	0.0
1	1	0	TTTGGGTGATA	12121	0.0		#DIV/0!	0.0
0	0	1	TTTGTACAAG	12122	#DIV/0!		#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TTTGTTACTGG	12123	#DIV/0!	0.0	
1	0	0	TTTGTTATTC	12124	0.0	#DIV/0!	0.0
0	0	1	TTTGTCGTAA	12125	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTCGTAA	12126	#DIV/0!	0.0	#DIV/0!
1	1	0	TTGGAACG	12127	0.0	#DIV/0!	0.0
1	1	0	TTGGTATAT	12128	0.0	#DIV/0!	0.0
1	1	0	TTGGTCGTT	12129	0.0	#DIV/0!	0.0
1	1	0	TTGGTGCCT	12130	0.0	#DIV/0!	0.0
0	0	1	TTGGTAGT	12131	#DIV/0!	0.0	#DIV/0!
0	0	0	TTGGTCCC	12132	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGTTGTA	12133	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTAAAAAA	12134	0.0	#DIV/0!	0.0
1	1	0	TTTAAGTTA	12135	0.0	#DIV/0!	0.0
0	0	1	TTTAATGCT	12136	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTACACTC	12137	0.0	#DIV/0!	0.0
1	1	0	TTTACAGAT	12138	0.0	#DIV/0!	0.0
0	0	1	TTTACCGTT	12139	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTAGATAC	12140	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTATGTTAGT	12141	0.0	#DIV/0!	0.0
0	1	0	TTTATGGCC	12142	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTATGTCAC	12143	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTATGTT	12144	0.0	#DIV/0!	0.0
1	1	0	TTTATCATC	12145	0.0	#DIV/0!	0.0
-1	0	0	TTTATCTAA	12146	0.0	#DIV/0!	0.0
0	1	0	TTTATTACC	12147	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTATTACT	12148	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTATTATT	12149	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTATTGAT	12150	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTTCAAGTG	12151	0.0	#DIV/0!	0.0
0	1	0	TTTCAATAT	12152	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTCAGAGG	12153	0.0	#DIV/0!	0.0
1	0	0	TTTCAGGAT	12154	0.0	#DIV/0!	0.0
1	0	0	TTTCCAGAA	12155	0.0	#DIV/0!	0.0
1	0	0	TTTCCAGGT	12156	0.0	#DIV/0!	0.0
0	0	1	TTTCCCCCT	12157	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCCGCTA	12158	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTCCGCAAC	12159	0.0	#DIV/0!	0.0
0	1	0	TTTCTATTG	12160	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCTCAA	12161	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTCTCGTT	12162	0.0	#DIV/0!	0.0
1	0	0	TTTCTCCA	12163	0.0	#DIV/0!	0.0
1	0	0	TTTCTTGA	12164	0.0	#DIV/0!	0.0
0	0	1	TTTGAATTG	12165	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTGAGAAAT	12166	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTGAGATT	12167	0.0	#DIV/0!	0.0
0	1	0	TTTGAGGAA	12168	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGAGTAT	12169	0.0	#DIV/0!	0.0
1	0	0	TTTGATAATG	12170	0.0	#DIV/0!	0.0
1	0	0	TTTGATTCC	12171	0.0	#DIV/0!	0.0
0	0	1	TTTGGGTGG	12172	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTGCATT	12173	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTGCTACG	12174	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGGAAA	12175	0.0	#DIV/0!	0.0
0	0	1	TTTGGGCTG	12176	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTGGTACA	12177	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTGTACAG	12178	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTTGTACGA	12179	0.0	#DIV/0!	0.0
-1	0	0	TTTGTGTC	12180	0.0	#DIV/0!	0.0
1	0	0	TTTGTGCAA	12181	0.0	#DIV/0!	0.0
0	1	0	TTTGTGTG	12182	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTGTGTC	12183	#DIV/0!	#DIV/0!	#DIV/0!
-1	0	0	TTTTTACGTC	12184	0.0	#DIV/0!	0.0
0	0	1	TTTTTAGAGG	12185	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTAGGCA	12186	#DIV/0!	#DIV/0!	#DIV/0!
-1	1	0	TTTTAGTGC	12187	0.0	#DIV/0!	0.0
0	1	0	TTTTTCAGTC	12188	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTTCATAT	12189	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTTTCCGCA	12190	0.0	#DIV/0!	0.0
0	0	1	TTTTCTGAT	12191	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTCTCAG	12192	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTCTCTT	12193	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTGGTGT	12194	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTGTATA	12195	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTAACT	12196	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTTAGAG	12197	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTTGAAT	12198	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTTTAAC	12199	0.0	#DIV/0!	0.0
1	1	0	TTTTCTG	12200	0.0	#DIV/0!	0.0
1	1	0	TTTTTTAA	12201	0.0	#DIV/0!	0.0
0	1	0	TTTTTTTA	12202	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTTTTT	12203	#DIV/0!	0.0	#DIV/0!

Table 6. Analysis of NORFs in intergenic regions

Chromosome	Start Position	End Position	Sequence	Length	SeqIDNo.
1	82289	82520	GCATTGATGT	83003	1.1
1	82393	82603	GCATTGATGT	83003	1.1
1	87139	87235	TGGTACAAAGG	87657	0.8
1	138363	138468	GTTTTCCCTT	138346	0.8
1	199452	199530	AAGTTTGATC	199861	0.5
1	199571	199679	AAGTTTGATC	199861	0.5
1	199650	199749	AAGTTTGATC	199861	0.5
2	45659	45758	CACACCAAGA	46225	36.8
2	45843	45927	CACACCAAGA	46225	36.8
2	45894	45768	GTCAAAGGTT	46225	2.1
2	101406	101181	GACCCCTTCC	101071	-1.9
2	101441	101336	GACCCCTTCC	101071	-1.9
2	101670	101481	GACCCCTTCC	101071	-1.9
2	143419	143329	TTGTCCTTCC	143816	-1.9
2	164270	164141	TCTCCAACG	163954	-0.5
2	164277	164160	TCTCCAACG	163954	-0.5
2	164413	164332	TCTCCAACG	163954	-0.5
2	164413	164332	TCATTCAAC	164729	-1.1
2	164511	164280	TCTCCAACG	163954	-0.5
2	164511	164280	TCATTCAAC	164729	-1.1
2	164711	164630	TCATTCAAC	164729	-1.1
2	164731	164449	TCTCCAACG	163954	-0.5
2	164731	164449	TCATTCAAC	164729	-1.1
2	16493	164786	TCATTCAAC	164729	-1.1
2	165070	164992	TCATTCAAC	164729	-1.1
2	165163	165088	TCATTCAAC	164729	-1.1

Table 6, cont.

2	165310	165217	TCATTCTAC	164729	-1.1	328
2	168083	167993	GATGTCGAGG	167621	-3.2	329
2	168083	167993	GCCAAATCAT	167795	-0.5	330
2	191757	191682	GGAGCGTATA	191214	-0.5	331
2	207111	206976	TCATTATGA	206843	-0.5	332
2	237723	237648	AGAAAGGATA	237221	-5.1	333
2	269981	270089	GATATGCAT	270571	1.6	334
2	292027	292126	TTTACAGTG	291819	1.1	335
2	350914	351010	AACGCTTTTC	351453	3.2	336
2	351211	351409	AACGGCTTTTC	351453	3.2	337
2	373156	372892	GTACACCACA	372408	-6.9	338
2	375803	375677	ATCCAAGCTG	375218	4.5	339
2	407148	407229	TTTTTTGGAA	407121	0.5	340
2	407258	407417	TTTTTTGGAA	407121	0.5	341
2	407415	407163	GGACCTGCCG	4068912	-21.3	342
2	407502	407592	TTTTTTGGAA	407121	0.5	343
2	407534	407609	TTTTTTGGAA	407121	0.5	344
2	419118	418863	ACCCGTGTCAT	418633	-8.0	345
2	419118	418863	TTCATTAGG	418750	-1.9	346
2	419291	419429	TGATTATTC	418947	0.5	347
2	490542	490617	TAGACATCTA	491114	6.1	348
2	490637	490718	TAGACATCTA	491114	6.1	349
2	549170	549065	GGCTCCCTTA	548739	-4.8	350
2	553439	553271	AATACCAATG	553662	-0.5	351
2	564889	564964	GAAGGCTTT	564504	0.8	352
2	564889	564964	CAGAAATAGC	565131	0.8	353
2	571996	571894	GAAAGTGTATG	571506	-1.9	354
2	572022	571947	GAAAGTGTATG	571506	-1.9	355

Table 6, cont.

2	578052	578196	ATCTGTATT	578531	2.4	356
2	578128	578215	ATCTGTATT	578531	2.4	357
2	592769	592907	ATGGCTCAGT	592726	0.5	358
2	680317	680515	CGAAGTCATA	680606	0.8	359
2	680591	680828	CGAAGTCAAA	680606	0.8	360
2	680604	680484	ACTGCATCTG	680861	-0.5	361
2	680854	680962	CGAAAGTCAAA	680606	0.8	362
2	680862	681009	CGAAAGTCAAA	680606	0.8	363
2	680896	680737	ACTGCATCTG	680861	-0.5	364
2	681416	681182	ACTGCATCTG	680861	-0.5	365
2	744624	744780	CAAGTTAGGA	744771	0.5	366
2	799902	800052	TAGTCGGCTGT	800544	0.5	367
2	800304	800412	TAGTCGGCTGT	800544	0.5	368
2	24097	24346	CTGAAGCCAGA	23866	1.1	369
3	24244	24103	GGTTTGGCG	24168	-4.5	370
3	24308	24017	GGTTTGGCG	24168	-4.5	371
3	29795	29815	ATACCCAATT	29938	0.5	372
3	29795	29915	AACTTTGTAT	30055	0.5	373
3	41465	41702	GCGGGGGGTG	41647	0.5	374
3	56762	56840	ATGGTAGCCA	56965	1.6	375
3	56762	56840	AAAATTGTTC	57112	0.5	376
3	118040	118145	CGGCCATTAT	118537	0.8	377
3	131368	131260	GAAGAACGTC	131047	-1.6	378
3	154938	154845	TTGAGGAACG	154678	-2.4	379
3	157511	157667	TCAAGTACTC	157852	0.5	380
3	175540	175462	AATACCAGCG	175538	-1.3	381
3	289916	290111	ACAAGCCCCAA	289915	0.5	382
4	65111	65024	TTTAATACTG	65386	-1.6	383

Table 6, cont.

4	94228	94114	GTACAGGGCT	93873	-0.5	384
4	117459	117573	ATATATTAG	117098	1.6	385
4	155987	155909	GTGAAACAGTC	155452	-0.5	386
4	169785	169863	TATCTTTTG	169784	1.1	387
4	229244	229349	CCAAATCAA	229491	3.7	388
4	254853	254751	AAGATCATCG	254851	-0.5	389
4	255125	254996	AAGATCATCG	254851	-0.5	390
4	255306	255204	AAGATCATCG	254851	-0.5	391
4	302983	302843	GCTAAGAAC	302607	-2.4	392
4	303010	302932	GCTAAGAAC	302607	-2.4	393
4	303201	303042	GCTAAGAAC	302607	-2.4	394
4	340977	340812	GAACTCCTGG	340891	-0.5	395
4	363788	363932	AGGACGTTGA	364344	6.7	396
4	427124	427220	AAATTTGGG	426725	0.5	397
4	431696	431606	TCAGCTCAAG	431556	-0.5	398
4	442493	442397	GAATTTTAA	442107	-0.5	399
4	442577	442496	GAATTTTAA	442107	-0.5	400
4	444118	444247	TAATTTTCA	443782	0.5	401
4	452766	452679	GAGAAGACAG	453166	-0.5	402
4	452881	452959	TTGGGTGGTA	453166	13.9	403
4	471279	471369	AATACGTTAC	471791	0.5	404
4	471419	471506	AATACGTTAC	471791	0.5	405
4	503374	503479	AGCGAATGTA	503714	0.5	406
4	521353	521506	TGTTTATAAG	521709	0.5	407
4	521378	521480	TGTTTATAAG	521709	0.5	408
4	538841	538748	CGTTTTCGTC	538839	-0.5	409
4	538846	538756	CGTTTTCGTC	538839	-0.5	410
4	539135	539015	CGTTTTCGTC	538839	-0.5	411

Table 6, cont.

4	539160	539085	CGTTTTCGTC	538839	-0.5	412
4	539821	539236	CGTTTTCGTC	538839	-0.5	413
4	565889	565763	AAGCTGAGGA	565435	-1.9	414
4	769248	769164	TTGCAAGGTG	768862	-0.5	415
4	769405	769291	TTGCAAGGTG	768862	-0.5	416
4	914857	914767	CTGTCCTGA	914409	-28.8	417
4	915000	914892	CTGTCCTGA	914409	-28.8	418
4	930790	930910	TCCACACACA	930972	0.5	419
4	930916	931075	TCCACACACA	930972	0.5	420
4	1075290	1075209	TGTCTACCAA	1074719	-0.8	421
4	1075639	1075783	AATTGCCACC	1076144	1.1	422
4	1108535	1108319	GGCGCAATTT	1108395	-2.4	423
4	1108718	1108592	GGCGCAATTT	1108395	-2.4	424
4	1199134	1199050	CTGGTCGGCA	1198566	-0.5	425
4	1201741	1201819	GCCCAATGGT	1202286	8.5	426
4	1239272	1239356	GGTTTGGTT	1239834	148.4	427
4	1239288	1239423	GGTTTGGTT	1239834	148.4	428
4	1302865	1302955	TAGCCAATGC	1302517	0.8	429
4	1395010	1394827	AGAAAAAGAA	1394470	-1.1	430
4	1401524	1401608	GCTAAATTT	1401803	6.1	431
4	1401597	1401462	GTATATTGA	1401803	-0.8	432
4	1469125	1469215	GAGGATAAAG	1469693	6.9	433
4	1469227	1469389	GAGGATAAAG	1469693	6.9	434
4	1489072	1489249	AAAAGATCAT	1489450	7.2	435
4	1489451	1489538	AAAAGATCAT	1489450	7.2	436
4	1489776	1489608	TTCGTTCACT	1489450	-101.3	437
4	1489846	1489648	TTCGTTCACT	1489450	-101.3	438
5	7754	7643	GGTACGCCAG	7189	-0.5	439

Table 6, cont.

5	66987	66906	TATATTCTCG	67152	-3.7	440
5	67077	66990	TATATTCTCG	67152	-3.7	441
5	69510	69321	TGTCCTTCTC	68942	-0.5	442
5	117907	117808	GTACGCTGTG	118089	-1.1	443
5	118091	118010	GTACGCTGTG	118089	-1.1	444
5	159423	159534	AAGATGAAGG	159953	0.5	445
5	159517	159382	CCAAGTCTCG	159320	-0.5	446
5	167025	166923	TGCCCTGGCC	166452	-5.9	447
5	174995	175087	GTACTCCTCT	175533	0.5	448
5	187382	187292	GATTTCCTTG	187462	-1.3	449
5	187524	187317	GATTTCCTTG	187462	-1.3	450
5	187830	187749	GATTTCCTTG	187462	-1.3	451
5	250717	250999	GGACTATAAG	251266	1.6	452
5	251078	251276	GGACTATAAG	251266	1.6	453
5	251166	251091	TGGGTTGAAG	251266	-0.8	454
5	251418	251196	TGGGTTGAAG	251266	-0.8	455
5	251443	251695	GGACTATAAG	251266	1.6	456
5	251535	251457	TGGGTTGAAG	251266	-0.8	457
5	280856	280949	CGAGACTTGG	280518	1.3	458
5	288178	288103	AAAAGTAGTT	288398	-0.5	459
5	288316	288202	AAAAGTAGTT	288398	-0.5	460
5	288625	288427	AAAAGTAGTT	288398	-0.5	461
5	288843	288762	AAAAGTAGTT	288398	-0.5	462
5	288979	288853	AAAAGTAGTT	288398	-0.5	463
5	302750	302645	GCAACAAAAG	303010	-2.7	464
5	318642	318804	GTTCGAAAAAC	319197	0.8	465
5	349352	349448	CCCATAGTGG	349198	0.5	466
5	414306	414216	GAAGAGAAATG	413737	-3.5	467

Table 6, cont.

5	449471	449573	GATGCCGAA	449627	5.9	468
5	449741	449663	ATTTTATTG	449739	-0.8	469
5	449882	449762	ATTTATTG	449739	-0.8	470
5	462115	462322	GCAGAATGCT	462782	4.8	471
5	550699	550564	ATCATAAAAA	550622	-0.8	472
5	550800	550713	ATCATAAAAA	550622	-0.8	473
5	552326	552401	GACAAATTTT	552612	0.5	474
6	76470	76338	AAGTGTGAA	76141	-0.5	475
6	76688	76517	AAGTGTGAA	76141	-0.5	476
6	226566	226698	GGTGTGAAGG	226450	1.3	477
6	226705	226909	GGTGTGAAGG	226450	1.3	478
6	226778	226865	GGTGTGAAGG	226450	1.3	479
6	256326	256404	AGTGATTGTT	256223	0.5	480
6	256551	256659	AGTGATTGTT	256223	0.5	481
7	45394	45280	GTGATGAACT	44798	-2.4	482
7	144603	144678	TGCCAGACTC	145067	2.7	483
7	150309	150207	AAAGATCCGA	149894	-0.5	484
7	299797	299944	TGGCACCTCA	300075	1.9	485
7	323885	323762	TTCAACCGGAA	323655	-0.5	486
7	324246	324132	TTCAACCGGAA	323655	-0.5	487
7	401415	401331	GCTTTGATTG	400901	-6.1	488
7	402247	402418	ATAACGAAAA	402790	0.8	489
7	423684	423558	ACTATTCTGT	423957	-0.5	490
7	479053	479128	ATTAAAAACA	478646	0.5	491
7	485419	485527	CGCCTCCAGT	485772	2.9	492
7	506061	505956	GCCAAGAACCT	505590	-0.5	493
7	523429	523552	TTTATTCAAT	523810	0.5	494
7	534651	534549	AAAGACAGAG	534357	-77.8	495

Table 6, cont.

7	535012	534742	AAAGACAGAG	534357	-77.8	496
7	559026	559101	AAAATATCTT	559397	0.5	497
7	560127	560019	TAAGGAGTTT	559702	-7.5	498
7	643861	644020	CAACAAGGTA	644349	1.6	499
7	695178	695256	AGCCCGTTT	695627	0.5	500
7	735889	735787	AAGCCGCACAA	735909	-0.5	501
7	756886	756727	TATGATGTGA	756360	-0.8	502
7	836065	835969	GTAAGAAATC	836202	-1.3	503
7	836084	836009	GTAAGAAATC	836202	-1.3	504
7	836203	836329	TGTATTTTTG	836202	0.5	505
7	836328	836595	TGTATTTTTG	836202	0.5	506
7	836340	836151	GTAAGAAATC	836202	-1.3	507
7	836340	836151	CTAAACAAAG	836587	-0.5	508
7	836341	836481	TGTATTTTTG	836202	0.5	509
7	836537	836462	GTAAGAAATC	836202	-1.3	510
7	836537	836462	CTAAACAAAG	836587	-0.5	511
7	836659	836383	GTAAGAAATC	836202	-1.3	512
7	836659	836383	CTAAACAAAG	836587	-0.5	513
7	856618	856726	ACGTTCTTT	8565247	31.2	514
7	867606	867528	GATATCTTA	867110	-1.3	515
7	878487	878325	TATGGTAAT	877872	-2.1	516
7	904952	904808	TAGGAAGAAA	905046	-0.5	517
7	905112	905031	TAGGAAGAAA	905046	-0.5	518
7	905158	905008	TAGGAAGAAA	905046	-0.5	519
7	939168	939090	GTTCITGCCT	939579	-1.1	520
7	939405	939330	GTTCITGCCT	939579	-1.1	521
7	939581	939419	GTTCITGCCT	939579	-1.1	522
7	958643	958523	GGAAAAATTA	958839	-0.5	523

Table 6, cont.

7	958910	958826	GGAAAAATTA	958839	-0.5	524
7	959344	959239	GGAAAAATTA	958839	-0.5	525
7	959854	959743	GTCCATAAGC	960125	-0.8	526
7	973737	973920	AATCTTGAGA	973710	0.8	527
7	973965	974052	AATCTTGAGA	973710	0.8	528
7	974035	974161	AATCTTGAGA	973710	0.8	529
7	974093	974174	AATCTTGAGA	973710	0.8	530
7	974238	974319	TTTGGATAGT	974754	0.5	531
7	984769	984844	AGAGAGATGT	985326	0.8	532
8	34334	34232	CTACTTCCTGC	34653	-0.8	533
8	116135	116030	CAGAAAATGG	115655	-6.7	534
8	116166	116070	CAGAAAATGG	115655	-6.7	535
8	202313	202199	CGTTTGTGTA	202655	-0.5	536
8	202390	202294	CGTTTGTGTA	202655	-0.5	537
8	202657	202507	CGTTTGTGTA	202655	-0.5	538
8	202934	202841	CGTTTGTGTA	202655	-0.5	539
8	203267	203033	CGTTTGTGTA	202655	-0.5	540
8	246114	246192	AAGGACCTTA	245695	0.5	541
8	375327	375123	ATTGCATCTC	374655	-1.9	542
8	387112	387034	AGAAAAAAC	386651	-0.5	543
8	390068	390188	TTAGTGAAGG	390531	1.1	544
8	519335	519230	TAAAGTCCAG	518998	-0.5	545
8	529417	529291	TAAGCAGATT	529129	-0.5	546
8	529666	529585	TAAGCAGATT	529129	-0.5	547
9	47656	47758	AAGCGGTACT	47886	3.5	548
9	47875	47971	AAGCGGTACT	47886	3.5	549
9	68369	68513	CTCTCCCCCA	69011	0.5	550
9	150218	150398	ATTGGCAGAT	150886	1.1	551

Table 6, cont.

9	180379	180280	AGAACATCAA	180080	-1.3	552
10	73584	73431	TTTCAAGATG	73219	-3.5	553
10	116993	117119	ACGCTCCAA	117476	1.1	554
10	159824	159701	ACTTTTCAG	159213	-1.6	555
10	180882	180780	ATATAGCTGC	181144	-1.1	556
10	181408	181252	ATATAGCTGC	181144	-1.1	557
10	204817	204913	CTTCAGAATG	205291	0.5	558
10	337698	337821	GGGTTCCTCTA	338217	0.5	559
10	434655	434781	ACAAAAATTG	435135	4.8	560
10	434755	434674	TACTCTCGTT	435135	-0.5	561
10	454483	454693	TAAGGGAGT	454237	4.5	562
10	454622	454541	GGCTTCCTCTA	454115	-0.5	563
10	471655	471556	TTCATAAAGTT	471894	-0.8	564
10	471738	471546	TTCATAAAGTT	471894	-0.8	565
10	472318	472192	TTCATAAAGTT	471894	-0.8	566
10	525869	525968	TAATTAGTTA	526379	0.8	567
10	578134	577984	GCGGAATTCT	577597	-0.5	568
10	585344	585482	TCTTACAATA	585922	1.9	569
10	585501	585576	TCTTACAATA	585922	1.9	570
10	622714	622867	AATGTGGAAC	622554	0.5	571
10	622945	622849	GGTAACGTA	622447	-36.0	572
10	639331	639433	TCTCCGTACA	639846	0.5	573
10	721815	721899	CAATTGGCAA	721778	0.5	574
10	721962	722046	CAATTGGCAA	721778	0.5	575
11	74111	73889	ATTCTGGATC	73672	-0.5	576
11	74191	74032	ATTCTGGATC	73672	-0.5	577
11	75637	75742	GGTCCTCCC	75918	0.5	578
11	91601	91682	CCAAAAAAA	91785	1.1	579

Table 6, cont.

11	91621	91756	CCAAAAAA	91785	1.1	580
11	91700	91826	CCAAAAAAA	91785	1.1	581
11	93604	93778	GAACCTCACA	94125	1.1	582
11	93620	93731	GAACTCCACA	94125	1.1	583
11	93653	93539	ACTCCCTGTA	93528	-0.5	584
11	93822	93732	AGTCCCTGTA	93528	-0.5	585
11	94057	93919	AGTCCCTGTA	93528	-0.5	586
11	94076	94229	GAACCTCACA	94125	1.1	587
11	94111	94234	GAACTCCACA	94125	1.1	588
11	94127	93998	AGTCCCTGTA	93528	-0.5	589
11	143708	143804	CTCTATTGAT	144281	0.5	590
11	143803	143929	CTCTATTGAT	144281	0.5	591
11	146079	145929	TAAATCTGAG	145617	-0.8	592
11	146115	146196	GCTTTCCCTT	146665	0.5	593
11	146591	146756	GCTTTCCCTT	146665	0.5	594
11	151395	151557	CTGGTAGAAA	151174	0.8	595
11	202891	202981	AACAAGATTG	203396	1.1	596
11	203065	203146	AACAAGATTG	203396	1.1	597
11	212738	212657	TCTGTGAAAC	212642	-1.9	598
11	212805	212708	TCTGTGAAAC	212642	-1.9	599
11	212887	212773	TCTGTGAAAC	212642	-1.9	600
11	213019	212944	TCTGTGAAAC	212642	-1.9	601
11	226029	226119	GAGGCCAAAAA	226288	0.5	602
11	231305	231446	ACCGCAAAAGA	231872	0.5	603
11	316824	316716	TCTATTGTC	316337	-4.8	604
11	374386	374269	CCTTCACTGC	374172	-1.1	605
11	374400	374499	CTGTTTTGGG	374761	1.9	606
11	374465	374339	CCTTCACTGC	374172	-1.1	607

Table 6, cont.

11	374612	374522	CCTTCACTGC	374172	-1.1	608
11	374986	375070	CTGTTTGGG	374761	1.9	609
11	374986	375070	TTTAAAAAAA	375209	0.5	610
11	393014	392789	TTAGAGAGAC	392377	-3.2	611
11	430450	430354	TACTTAAAC	430109	-0.5	612
11	437419	437536	GGTGATGAGG	437945	4.0	613
11	451014	450927	GTTCAAAGAGG	450734	-0.8	614
11	527162	527009	AGAACTTCGT	526695	-1.9	615
11	527211	527100	AGAACCTCGT	526695	-1.9	616
11	527218	527119	AGAACCTTCGT	526695	-1.9	617
11	578670	578745	GTTCCAAGAC	579136	6.4	618
11	580673	580553	TACCTCGTTA	580171	-0.5	619
11	580809	580623	TACCTCGTTA	580171	-0.5	620
11	625735	625840	CACATCATAA	625896	1.1	621
12	198728	198986	ATCATTTGGG	199358	1.3	622
12	230483	230570	CTTGTTCAAA	230973	0.5	623
12	230586	230679	CTTGTTCAAA	230973	0.5	624
12	230974	231106	CTTGTTCAAA	230973	0.5	625
12	231081	231201	CTTGTTCAAA	230973	0.5	626
12	282669	282522	GAGACTGCTA	282284	-4.0	627
12	286675	286759	ATAATGGAAC	287109	0.8	628
12	320057	320138	AATGTGCTGT	320427	0.5	629
12	320203	320314	AATGTGCTGT	320427	0.5	630
12	320428	320557	AATGTGCTGT	320427	0.5	631
12	320496	320640	AATGTGCTGT	320427	0.5	632
12	340974	341061	GCAGATAAGCG	341325	0.5	633
12	341326	341587	GCAGATAAGCG	341325	0.5	634
12	341402	341486	GCAGATAAGCG	341325	0.5	635

Table 6, cont.

12	341463	341538	GCGATAGCG	341325	0.5	636
12	341603	341783	GCGATAGCG	341325	0.5	637
12	348410	348299	GAAAGCTGA	347904	-0.8	638
12	348490	348364	GAAAGCTGA	347904	-0.8	639
12	368278	368404	TCTGACTTAG	368781	0.5	640
12	390278	390419	GCCGTTCGAT	390118	0.8	641
12	449634	449715	GTAACGATTG	449918	0.5	642
12	449727	449895	GTAACGATTG	449918	0.5	643
12	449825	449996	GTAACGATTG	449918	0.5	644
12	449919	450075	GTAACGATTG	449918	0.5	645
12	574127	574046	CCGAAACAGG	573606	-0.8	646
12	669662	669470	TCTAGTCGCC	669660	-11.2	647
12	669894	669741	TCTAGTCGCC	669660	-11.2	648
12	722618	722381	TTGCTAAAGA	722091	-1.3	649
12	783612	783435	TTTACGATAA	782983	-5.6	650
12	783612	783435	TCAAACATCC	783017	-2.1	651
12	794725	794644	CATCACCATC	794711	-0.5	652
12	794732	794618	CATCACCATC	794711	-0.5	653
12	796120	796009	AAGGACAGAG	795803	-35.7	654
12	902675	902774	CCTTGTGGGA	903197	0.5	655
12	902685	902820	CCTTGTGGGA	903197	0.5	656
12	902773	902884	CCTTGTGGGA	903197	0.5	657
13	70306	70225	TGCCTCAGGA	69824	-1.3	658
13	104539	104413	TIGAAAAGAT	104160	-1.9	659
13	158623	158698	CTTCTCTTT	158970	13.1	660
13	158624	158507	GTCATATAGT	158765	-1.6	661
13	158624	158507	CTCTTAGTTC	158970	-0.5	662
13	158760	158964	CTTCTCTTT	158970	13.1	663

Table 6, cont.

13	158972	158876	GTCATATAGT	158765	-1.6	664
13	158972	158876	CTCCTAGTTG	158970	-0.5	665
13	159169	159031	GTCATATAGT	158765	-1.6	666
13	159169	159031	CTCCTAGTTG	158970	-0.5	667
13	159305	159218	GTCATATAGT	158765	-1.6	668
13	159305	159218	CTCCTAGTTG	158970	-0.5	669
13	164183	164333	GAAGCCCTGTT	163844	1.1	670
13	164208	164283	GAAGCCCTGTT	163844	1.1	671
13	228845	228932	TCTATAGCAA	228936	0.8	672
13	283258	283336	TGGCGAAGTC	283795	0.5	673
13	283982	284069	TGGCGAAGTC	283795	0.5	674
13	297937	298063	CCTTCTGAA	297985	0.8	675
13	298096	298180	CCCTTCTGAA	297985	0.8	676
13	298249	298411	CCCTTCTGAA	297985	0.8	677
13	298310	298388	CCCTTCTGAA	297985	0.8	678
13	340745	340844	GGTTCCGGTA	341196	0.8	679
13	350254	350341	GAAAAGGTCA	350573	1.1	680
13	362701	362827	TTTTCTTAA	363037	0.5	681
13	511314	511566	TTTCCTATAA	511751	11.5	682
13	511387	511552	TTTCCTATAA	511751	11.5	683
13	511522	511291	CAATGGCCCA	511751	-2.7	684
13	511694	511772	TTTCCTATAA	511751	11.5	685
13	511752	511827	TTTCCTATAA	511751	11.5	686
13	511887	511809	CAATGGCCCA	511751	-2.7	687
13	512285	512204	CAATGGCCCA	511751	-2.7	688
13	552254	552167	GGCAACAGCA	552531	-1.1	689
13	552267	552105	GGCAACAGCA	552531	-1.1	690
13	652875	652749	CCAGAAGGAG	652873	-1.3	691

Table 6, cont.

13	652993	652891	CCAGAAGGAG	652873	-1.3	692
13	653135	652913	CCAGAAGGAG	652873	-1.3	693
13	653340	653232	CCAGAAGGAG	652873	-1.3	694
13	653510	653315	CCAGAAGGAG	652873	-1.3	695
13	754016	753848	GCTGCCAGAC	753413	-24.5	696
13	804354	804474	GTGGAAAGG	804600	1.6	697
13	826412	826493	GCAATACTAT	826521	0.5	698
13	841805	841883	AATTAACAC	842122	0.8	699
13	880653	880446	CGCAGGTTAC	880121	-0.5	700
14	59970	59880	AGTGACGATG	60143	-0.5	701
14	60135	60057	AGTGACGATG	60143	-0.5	702
14	60190	60025	AGTGACGATG	60143	-0.5	703
14	60296	60203	AGTGACGATG	60143	-0.5	704
14	60321	60183	AGTGACGATG	60143	-0.5	705
14	60428	60353	AGTGACGATG	60143	-0.5	706
14	106708	106789	GCAGAAGAAC	106358	0.8	707
14	107444	107585	GATAACCTTC	108068	0.5	708
14	107496	107574	GATAACCTTC	108068	0.5	709
14	187673	187517	GTTTAACT	187177	-14.7	710
14	282280	282193	TTCACCCCTC	282463	-2.1	711
14	335847	335772	GTTTGACCTA	335512	-0.5	712
14	335899	335746	GTTTGACCTA	335512	-0.5	713
14	336012	335913	GTTTGACCTA	335512	-0.5	714
14	350723	350843	CATCAGCAAC	350938	3.5	715
14	412155	412074	AAGGCTTAATG	412050	-0.5	716
14	479523	479346	GCAGGAGAAG	479112	-1.1	717
14	622639	622558	TGTCCTGGTGT	622376	-0.8	718
14	622840	622741	TGTCTGGTGT	622376	-0.8	719

Table 6, cont.

14	622856	622757	TGTCTGGTGT	622376	-0.8	720
14	662086	661969	TGTTATAAA	661712	-0.8	721
14	662160	662001	TGTTTATAAA	661712	-0.8	722
15	31894	31984	AAAAGTCATT	32081	0.8	723
15	33000	33075	TAGTTTGTG	33475	1.1	724
15	33062	33137	TAGTTTGTG	33475	1.1	725
15	33183	33333	TAGTTTGTG	33475	1.1	726
15	33789	33876	TAGTTTGTG	33475	1.1	727
15	36175	35998	AAATTCAAAA	35952	-0.5	728
15	43365	43473	TTTCCAAAA	43887	0.5	729
15	242607	242691	TTTGCTTGGT	242743	0.5	730
15	242744	242828	TTTGCTTGGT	242743	0.5	731
15	255172	255268	TGGTGTGTC	255542	6.7	732
15	255257	255119	GATTAAACT	254749	-2.9	733
15	274560	274449	ATGCTCGGCT	274180	-2.1	734
15	274734	274629	ATGCTCGGCT	274180	-2.1	735
15	304341	304449	AGTTTCCCTG	304814	0.5	736
15	304815	304920	AGTTTCCCTG	304814	0.5	737
15	305120	305303	AGTTTCCCTG	304814	0.5	738
15	305131	305242	AGTTTCCCTG	304814	0.5	739
15	316395	316263	AATGCTCCAG	316173	-1.9	740
15	372184	372049	GCTTGTCAA	372381	-0.5	741
15	418057	417958	ACGAAAATCC	417612	-0.8	742
15	4311735	431849	TCTTGAAGAAG	432323	1.3	743
15	431911	431989	TCTTGAAGAAG	432323	1.3	744
15	449127	449040	AAGGAGACAC	448625	-0.5	745
15	517364	517442	TTTCAGGCCAA	517833	1.1	746
15	517380	517467	TTTCAGGCCAA	517833	1.1	747

Table 6, cont.

15	544520	544625	CTATATATCA	544531	0.5		748
15	571039	571222	GATGGAATAG	571211	0.5		749
15	571131	571281	GATGGAATAG	571211	0.5		750
15	649200	649104	GATAACAAA	649003	-4.0		751
15	671181	671070	AGCATCGGTG	671550	-1.1		752
15	671231	671051	AGCATCGGTG	671550	-1.1		753
15	712664	712589	GGACAATCAG	712375	-1.1		754
15	727390	727471	TCTGTCGAAA	727713	1.1		755
15	792336	792480	ACGGAAAGA	792535	0.8		756
15	797555	797462	GGTGGATTCT	797959	-2.7		757
15	803470	803569	CCGGTTACTA	803664	1.3		758
15	832327	832423	AGCGTCCTCA	832421	1.9		759
15	832422	832539	AGCGTCCTCA	832421	1.9		760
15	842430	842349	ATTCGTTCTA	841971	-2.1		761
15	877678	877585	ATCGTTTTAT	877140	-9.1		762
15	888162	888978	ATGGTGCGGT	889194	1.6		763
15	969483	969500	TTTCCAGAAT	969885	0.5		764
15	969499	969601	TTTCCAGAAT	969885	0.5		765
15	969836	969956	TTTCCAGAAT	969885	0.5		766
15	969983	970091	TTTCCAGAAT	969885	0.5		767
15	970096	970255	TTTCCAGAAT	969885	0.5		768
15	970226	970112	TGACAATGT	970608	-0.5		769
15	970302	970155	TGACAATGT	970608	-0.5		770
15	970877	970796	TGGACAATGT	970608	-0.5		771
15	971249	971087	TGGACAATGT	970608	-0.5		772
15	1003938	1004028	CGATGAGAAG	1004370	1.3		773
15	1004147	1004429	CGATGAGAAG	1004370	1.3		774
15	1004235	1004337	CGATGAGAAG	1004370	1.3		775

Table 6, cont.

15	1004376	1004508	CGATGAGAAG	1004370	1.3	1776
15	1009895	1009808	GTACCTCAT	1009390	-2.1	777
16	74996	74918	TTGGATATGG	74459	-1.1	778
16	75015	74868	TTGGATATGG	74459	-1.1	779
16	85534	85435	GGACTGTGTA	85036	-1.1	780
16	85580	85403	GGACTGTGTA	85036	-1.1	781
16	188512	188308	AGCAGGAGTT	188350	-2.1	782
16	188701	188608	AGCAGGAGTT	188350	-2.1	783
16	188796	188703	AGCAGGAGTT	188350	-2.1	784
16	188819	188579	AGCAGGAGTT	188350	-2.1	785
16	198589	198736	AAACCGTCC	199141	1.3	786
16	228157	228250	CATTGGTACT	228728	0.8	787
16	280116	279999	GACTTCTTC	279670	-0.5	788
16	458794	459001	AAATTGAGAT	459472	1.3	789
16	517452	517350	ATGGCCGTAG	516909	-0.8	790
16	560637	560517	AATTGACGAA	560169	-0.8	791
16	560761	560566	AATTGACGAA	560169	-0.8	792
16	581918	581792	ACTATATGTT	582230	-0.5	793
16	582098	582020	ACTATATGTT	582230	-0.5	794
16	582098	582020	TTGATGATT	582360	-0.8	795
16	582213	582105	ACTATATGTT	582230	-0.5	796
16	582213	582105	TTGATGATT	582360	-0.8	797
16	589101	589215	GATATATCAT	589647	0.5	798
16	589142	589274	GATATATCAT	589647	0.5	799
16	589341	589449	GATATATCAT	589647	0.5	800
16	589611	589695	GATATATCAT	589647	0.5	801
16	623391	623466	TCCGAATA	623521	5.1	802
16	653748	653949	AAGTTGAACA	654275	17.9	803

Table 6, cont.

16	653774	654002	AAGTTGAACA	654275	17.9		804
16	678614	678413	AACCTAGTTT	677921	-2.7		805
16	704776	704680	ATGTGTGATT	704380	-1.6		806
16	744464	744635	AGAATTGATT	744406	0.5		807
16	829798	829717	CCATGGTC	830109	-1.3		808
16	870135	870042	GGATATTAC	869622	-2.7		809
16	870238	870088	GGATATTAC	869622	-2.7		810
16	883373	883556	TGACATTCTT	883666	6.4		811

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CLAIMS

1. An isolated DNA molecule comprising a coding sequence of a yeast gene selected from the group of NORF genes comprising a SAGE tag as shown in SEQ ID NOS:67-811.
- 5 2. The isolated DNA molecule of claim 1 which is involved in cell cycle progression.
3. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 10% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.
- 10 4. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 25% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.
- 5 5. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 50% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.
- 15 6. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 100% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.
- 20 7. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by a statistically significant difference (greater than 95% confidence level) between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.
8. The isolated DNA molecule of claim 7 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.
- 25 9. The isolated DNA molecule of claim 2 wherein the NORF gene is not expressed in at least one phase of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.
10. The isolated DNA molecule of claim 1 which is genomic.
11. The isolated DNA molecule of claim 1 which is cDNA.
- 30 12. A method of using NORF genes to affect the cell cycle, comprising the

step of:

administering to a cell an isolated DNA molecule comprising a coding sequence of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M.

5

13. The method of claim 12 wherein the cell is a yeast cell.
14. The method of claim 12 wherein the cell is a fungal cell.
15. The method of claim 12 wherein the cell is a mammalian cell.
16. The method of claim 12 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.
- 10
17. A method for screening candidate antifungal drugs, comprising the steps of:

contacting a test substance with a yeast cell;

15

monitoring expression of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M, wherein a test substance which modifies the expression of the yeast gene is a candidate antifungal drug.

18. The method of claim 17 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

20

19. A method for identifying human genes which are involved in cell cycle progression, comprising the steps of:

contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M phase, wherein a human DNA sequence which hybridizes to the probe is identified as a sequence of a candidate human gene which is involved in cell cycle progression.

20. The method of claim 19 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

25

21. A probe comprising at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

22. The probe of claim 21 wherein expression of the NORF gene varies by at least 10% between any two phases of a cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

5 23. The probe of claim 22 wherein expression of the NORF gene varies by at least 25% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

24. The probe of claim 22 wherein expression of the NORF gene varies by at least 50% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

10 25. The probe of claim 22 wherein expression of the NORF gene varies by at least 100% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

15 26. The probe of claim 22 wherein the NORF gene is not expressed in at least one phase of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

27. The probe of claim 22 wherein expression of the NORF gene varies by a statistically significant difference (greater than 95% confidence level) between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

20 28. The probe of claim 22 wherein the gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

29. The method of claim 17 wherein said step of monitoring expression is performed using nucleic acid molecules which are immobilized on a solid support.

25 30. The method of claim 29 wherein the nucleic acid molecules are in an array.

31. The method of claim 19 wherein a probe which comprises a portion of the NORF gene is in an array on a solid support.

32. An array of probes on a solid support wherein at least one probe comprises at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

30 33. The array of claim 32 wherein the at least one NORF gene is involved

in cell cycle progression.

34. The array of claim 32 wherein the NORF gene is selected from the group consisting of NORF No. 1, 2, 4, 5, 6, 17, 25, and 27.

5 35. The array of claim 32 which comprises at least 100 probes of distinct sequence.

36. The array of claim 32 which comprises at least 500 probes of distinct sequence.

37. The array of claim 32 which comprises at least 1,000 probes of distinct sequence.

10 38. A method of identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell, comprising the steps of:

contacting a yeast cell with a candidate drug; and

15 monitoring expression in the yeast cell of at least one NORF gene whose expression is affected by the class of drugs, wherein detection of a difference in expression of the at least one NORF gene in the yeast cell relative to expression in the absence of the candidate drug identifies the candidate drug as a member of the class of drugs.

20 39. The method of claim 38 wherein the step of monitoring expression is performed using nucleic acid molecules which are immobilized on a solid support.

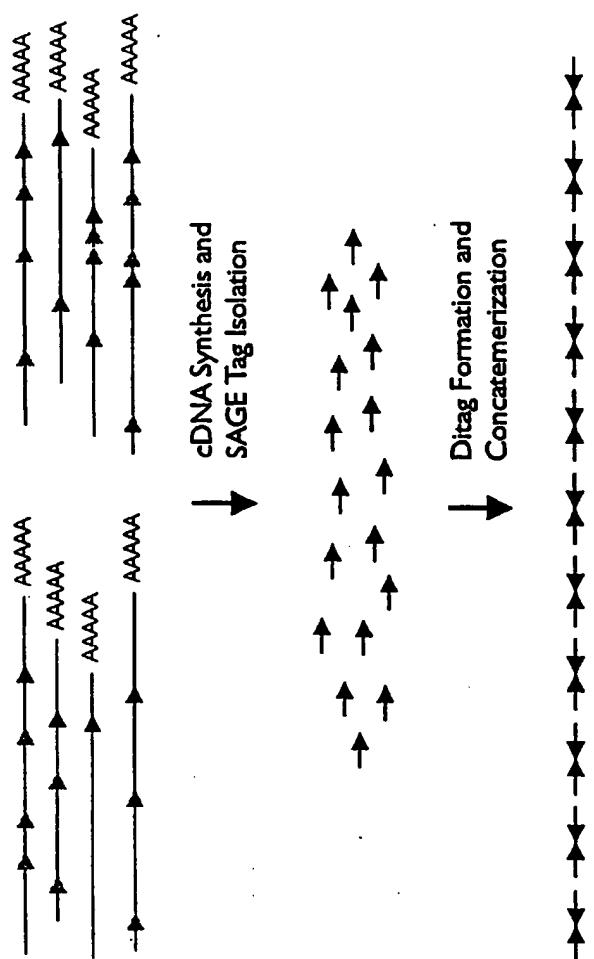
40. The method of claim 39 wherein the nucleic acid molecules are in an array.

41. The method of claim 38 wherein expression of two or more NORF genes is monitored.

25 42. The probe of claim 21 which is immobilized on a solid support.

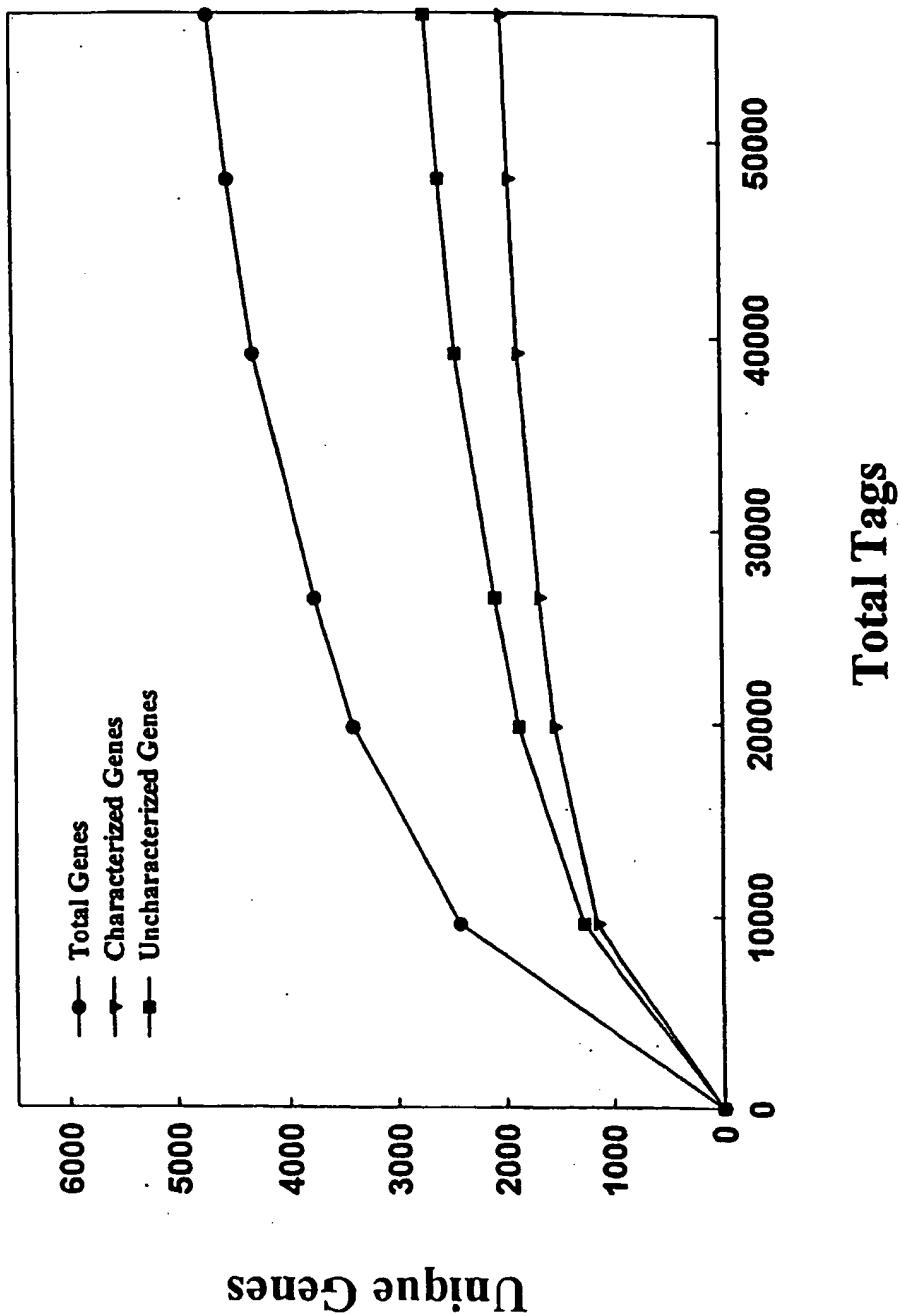
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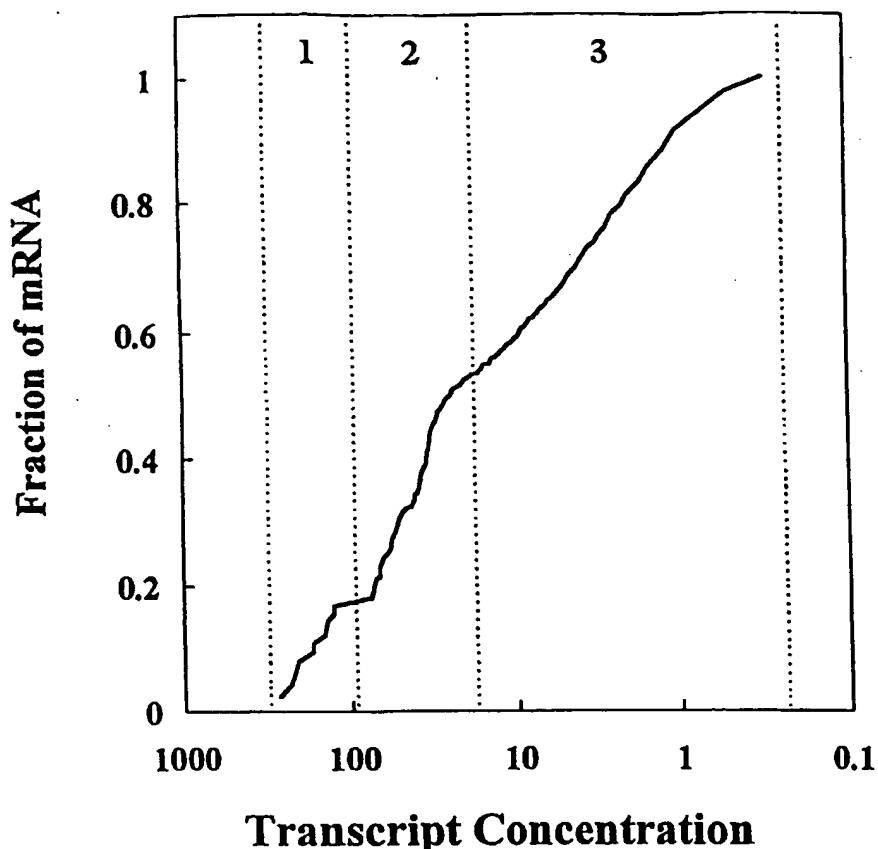


SUBSTITUTE SHEET (RULE 26)

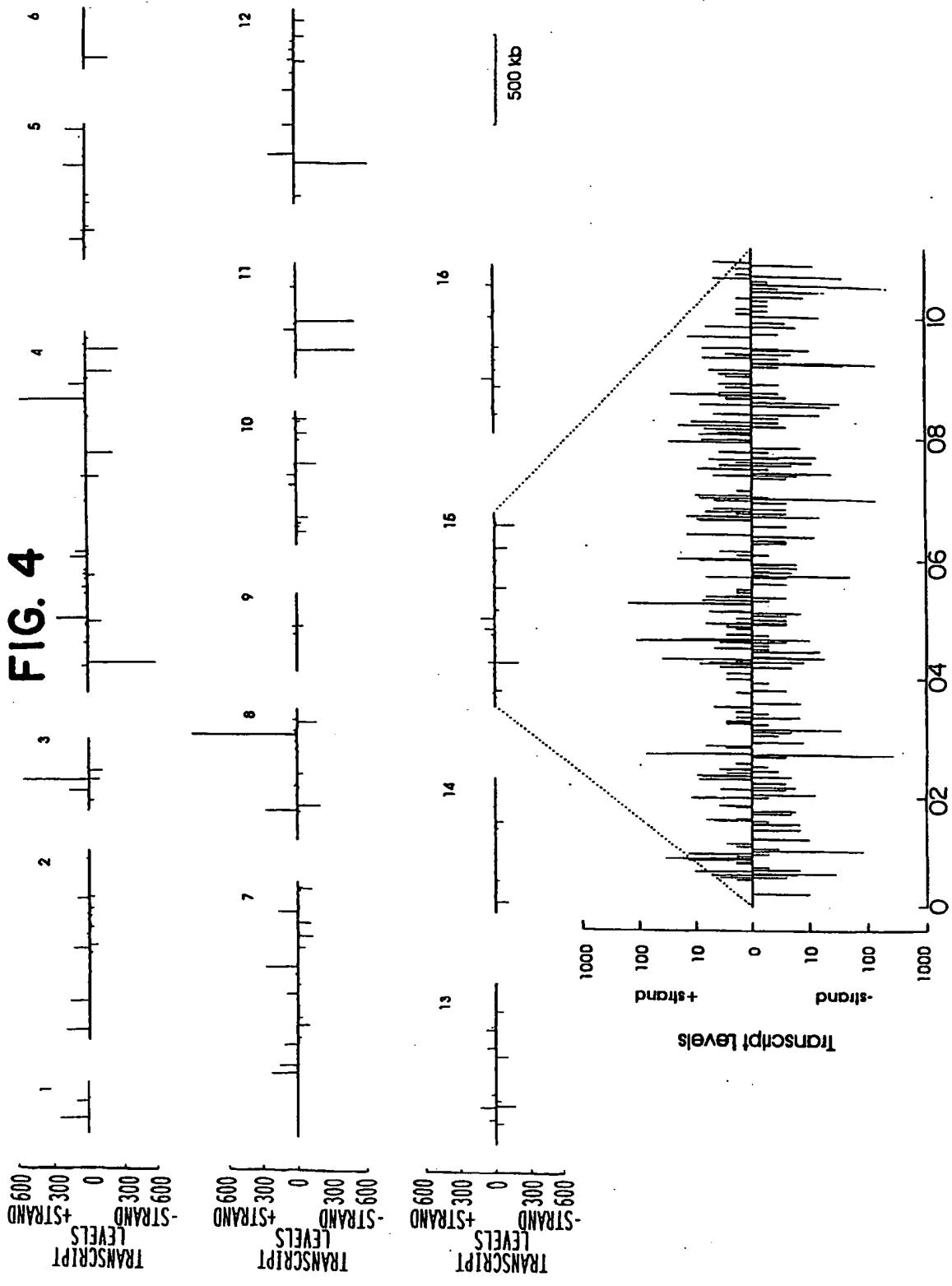
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FIG. 2

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FIG. 3A**Transcript Concentration****FIG. 3B**

Component	Virtual Rot (SAGE)		Rot (Reassociation)	
	%mRNA	Copies/cell	%mRNA	Copies/cell
1	17	180	23	200
2	38	40	51	30
3	45	2.5	26	1.5

FIG. 4

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FIG. 5

1 2 3

TDH2/3

519 561 636

TEF1/2

46 46 46

396 229 379

NORF1

114 84 182

RNR4

9 111 7

RNR2

9 85 9

NORF5

0 49 0